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Norman Wiard
1012 13th St.
Washington D.C.
1874.

# LETTER

FROM

# THE SECRETARY OF STATE

TRANSMITTING A LIST OF

## ALL PATENTS GRANTED BY THE UNITED STATES

THE

## ACTS OF CONGRESS RELATING THERETO,

AND THE

## DECISIONS OF COURTS OF THE UNITED STATES UNDER THE SAME.

1793-1830.

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JANUARY 13, 1831.

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# PATENTS GRANTED BY THE UNITED STATES.

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DEPARTMENT OF STATE,

*Washington*, 11*th January*, 1831.

SIR: I have the honor herewith to transmit to you, for the House of Representatives, a report prepared at this office, in pursuance of its resolution of 2d April, 1830, which you will be pleased to communicate to that House, together with the papers accompanying the same; and to be, with the highest respect,

Your obedient servant,

M. VAN BUREN.

The Hon. ANDREW STEVENSON,

*Speaker of the House of Representatives.*

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DEPARTMENT OF STATE,

*Washington*, 3*d January*, 1831.

In pursuance of a resolution of the House of Representatives of the 2d April, 1830, directing this Department to communicate to that House "a list of all the patents granted by the United States for the encouragement of arts and sciences, alphabetically arranged, placing in consecutive order all patents for inventions and improvements relating to the same subject, designating the names of the persons to whom granted, their place of residence, and the dates of their patents, with an alphabetical list of the names of the patentees;" together with a digest of decisions relating to patents under the laws of the United States, made in the courts of the United States; the Secretary has the honor to submit, herewith, to the House of Representatives, the accompanying report of the Superintendent of the patent office, to whom the preparation of the lists required was referred, together with the several lists so prepared by him, or under his direction: and the Secretary has the honor, at the same time, to lay before the House, conformably with the remaining part of their resolution, a report from Doctor Thomas P. Jones, late Superintendent of the patent office, but now a clerk in this Department,

with the digest of decisions under the laws of the United States, made in the courts of the United States, in relation to patents for new and useful inventions.

Respectfully submitted,

M. VAN BUREN.

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CONGRESS OF THE UNITED STATES.

*In the House of Representatives, April 2d*, 1830.

"*Resolved*, That the Secretary of State be directed to communicate to this House a list of all the patents granted by the United States for the encouragement of arts and sciences, alphabetically arranged, placing in consecutive order all patents for inventions and improvements relating to the same subject, designating the names of the persons to whom granted, their place of residence, and the dates of their patents, with an alphabetical list of the names of the patentees; and that three thousand copies of the said list be printed for the use of the House, under the direction of the Clerk; together with the public acts of Congress relating to patents, and a digest of decisions under the same, made in the courts of the United States."

PATENT OFFICE, *December* 10, 1830.

SIR: I have the honor to state that, in conformity to the above resolution, the following lists of patents and patentees have been compiled and arranged, it is hoped, in such a manner as to fulfil the conditions of the resolution.

The difficulty of classifying natural objects is well known—the gradual and imperceptible shades of difference rendering it impossible to determine exactly where one class should end, and another begin. In the productions of art, this difficulty is not diminished. Hence, in compiling the list of patents, a doubt frequently arose concerning the class to which some of the patents did properly belong. For instance, whether the partial rotting of hemp and flax should be classed under agriculture or chemistry: dry docks under navigation or landworks, &c. &c. Besides, many of the machines patented are applicable to purposes widely different, and consequently could not be embraced exclusively in any one class; while the titles of others are so indefinite as to render it impossible to determine either their *genera* or *species*. In such cases, no specific disposition being practicable, when the subject or patent sought is not found where it was expected, it will be discovered under some other title, to which the nature of the subject will generally refer.

Subjoined to each class, is an alphabetical list of its patentees. This mode was considered preferable to that of one continued list of all the names, as it affords much greater facility in finding the names of persons that have obtained patents on any proposed subject.

With great respect,
Yours, truly,
JOHN D. CRAIG.

Hon. MARTIN VAN BUREN,
*Secretary of State.*

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WASHINGTON, *January* 1, 1831.

SIR: I have the honor herewith to submit to your examination a digest of the decisions under the patent laws of the United States. In executing the task which you have confided to me, I have endeavored to furnish a condensed view of all those points which most materially affect the interest of patentees, and to fulfil the intentions of the resolution of the House of Representatives of April 2d, 1830, by which such a digest was ordered to be made.

I have the honor to be,
Very respectfully,
Your most obedient servant,
THOS. P. JONES.

The Honorable M. VAN BUREN,
*Secretary of State.*

# LAWS OF THE UNITED STATES RELATING TO PATENTS.

*An act to promote the progress of useful arts, and to repeal the act heretofore made for that purpose.*

SEC. 1. *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,* That, when any person or persons, being a citizen or citizens of the United States, shall allege that he or they have invented any new and useful art, machine, manufacture, or composition of matter, or any new and useful improvement on any art, machine, manufacture, or composition of matter, not known or used before the application, and shall present a petition to the Secretary of State, signifying a desire of obtaining an exclusive property in the same, and praying that a patent may be granted therefor, it shall and may be lawful for the said Secretary of State to cause letters patent to be made out in the name of the United States, bearing test by the President of the United States, reciting the allegations and suggestions of the said petition, and giving a short description of the said invention or discovery, and thereupon granting to such petitioner or petitioners, his, her, or their heirs, administrators, or assigns, for a term not exceeding fourteen years, the full and exclusive right and liberty of making, constructing, using, and vending to others to be used, the said invention or discovery, which letters patent shall be delivered to the Attorney General of the United States, to be examined, who, within fifteen days after such delivery, if he finds the same conformable to this act, shall certify accordingly at the foot thereof, and return the same to the Secretary of State, who shall present the letters patent thus certified to be signed, and shall cause the seal of the United States to be thereto affixed; and the same shall be good and available to the grantee or grantees, by force of this act, and shall be recorded in a book, to be kept for that purpose in the office of the Secretary of State, and delivered to the patentee, or his order.

SEC. 2. *Provided always, and be it further enacted,* That any person who shall have discovered an improvement in the principle of any machine, or in the process of any composition of matter, which shall have been patented, and shall have obtained a patent for such improvement, he shall not be at liberty to make, use, or vend the original discovery, nor shall the first inventor be at liberty to use the improvement; and it is hereby enacted and declared, that simply changing the form or proportions of any machine, or composition of matter, in any degree, shall not be deemed a discovery.

SEC. 3. *And be it further enacted,* That every inventor, before he can receive a patent, shall swear or affirm that he does verily believe that he is the true inventor or discoverer of the art, machine, or improvement, for which he solicits a patent, which oath or affirmation may be made before any person authorized to administer oaths, and shall deliver a written description of his invention, and of the manner of using, or process of compounding the same, in such full, clear, and exact terms, as to distinguish the same from all other things before known, and to enable any person skilled in the art or science of which it is a branch, or

with which it is most nearly connected, to make, compound, and use the same: and in the case of any machine, he shall fully explain the principle, and the several modes in which he has contemplated the application of that principle or character by which it may be distinguished from other inventions; and he shall accompany the whole with drawings and written references, where the nature of the case admits of drawings, or with specimens of the ingredients, and of the composition of matter, sufficient in quantity for the purpose of experiment, where the invention is of a composition of matter; which descriptions, signed by himself, and attested by two witnesses, shall be filed in the office of the Secretary of State, and certified copies thereof shall be competent evidence in all courts where any matter or thing, touching such patent right, shall come in question: and such inventor shall moreover deliver a model of his machine, provided the Secretary shall deem such model to be necessary.

SEC. 4. *And be it further enacted,* That it shall be lawful for any inventor, his executor or administrator, to assign the title and interest in the said invention at any time; and the assignee having recorded the said assignment in the office of the Secretary of State, shall thereafter stand in the place of the original inventor, both as to right and responsibility, and so the assignees or assigns, to any degree.

SEC. 5. *And be it further enacted,* That if any person shall make, devise, and use, or sell the thing so invented, the exclusive right of which shall, as aforesaid, have been secured to any person by patent, without the consent of the patentee, his executors, administrators, or assigns, first obtained in writing, every person so offending shall forfeit and pay the patentee a sum that shall be at least equal to three times the price for which the patentee has usually sold or licensed to other persons the use of the said invention; which may be recovered in an action on the case founded on this act, in the circuit court of the United States, or any other court having competent jurisdiction. [*Repealed by the act of April 17th,* 1800.]

SEC. 6. *Provided always, and be it further enacted,* That the defendant in such action shall be permitted to plead the general issue, and give this act, and any special matter of which notice in writing may have been given to the plaintiff or his attorney, thirty days before trial, in evidence, tending to prove that the specification filed by the plaintiff does not contain the whole truth relative to his discovery, or that it contains more than is necessary to produce the described effect, which concealment or addition shall fully appear to have been made for the purpose of deceiving the public, or that the thing thus secured by patent was not originally discovered by the patentee, but had been in use, or had been described in some public work, anterior to the supposed discovery of the patentee, or that he had surreptitiously obtained a patent for the discovery of another person: in either of which cases, judgment shall be rendered for the defendant, with costs, and the patent shall be declared void.

SEC. 7. *And be it further enacted,* That, where any State, before its adoption of the present form of government, shall have granted an exclusive right to any invention, the party claiming that right shall not be capable of obtaining an exclusive right under this act, but on relinquishing his right under such particular State; and of such relinquishment, his obtaining an exclusive right under this act shall be sufficient evidence.

SEC. 8. *And be it further enacted,* That the persons whose applications for patents were, at the time of the passing of this act, depending before the

Secretary of State, Secretary of War, and Attorney General, according to the act, passed the second session of the first Congress, entitled "An act to promote the progress of useful arts," on complying with the conditions of this act, and paying the fees herein required, may pursue their respective claims to a patent under the same.

SEC. 9. *And be it further enacted,* That, in case of interfering applications, the same shall be submitted to the arbitration of three persons, one of whom shall be chosen by each of the applicants, and the third person shall be appointed by the Secretary of State; and the decision or award of such arbitrators, delivered to the Secretary of State in writing, and subscribed by them, or any two of them, shall be final, as far as respects the granting of the patent: and if either of the applicants shall refuse or fail to choose an arbitrator, the patent shall issue to the opposite party. And where there shall be more than two interfering applications, and the parties applying shall not all unite in appointing three arbitrators, it shall be in the power of the Secretary of State to appoint three arbitrators for the purpose.

SEC. 10. *And be it further enacted,* That, upon oath or affirmation being made before the judge of the district court, where the patentee, his executors, administrators, or assigns, reside, that any patent which shall be issued in pursuance of this act was obtained surreptitiously, or upon false suggestion, and motion made to the said court within three years after issuing the said patent, but not afterwards, it shall and may be lawful for the judge of the said district court, if the matter alleged shall appear to him to be sufficient, to grant a rule, that the patentee, or his executor, administrator, or assign, show cause why process should not issue against him to repeal such patent; and if sufficient cause shall not be shown to the contrary, the rule shall be made absolute; and thereupon the said judge shall order process to be issued against such patentee, or his executors, administrators, or assigns, with costs of suit. And in case no sufficient cause shall be shown to the contrary, or if it shall appear that the patentee was not the true inventor or discoverer, judgment shall be rendered by such court for repeal of such patent; and if the party at whose complaint the process issued, shall have judgment given against him, he shall pay all such costs as the defendant shall be put to in defending the suit, to be taxed by the court, and recovered in due course of law.

SEC. 11. *And be it further enacted,* That every inventor, before he presents his petition to the Secretary of State, signifying his desire of obtaining a patent, shall pay into the Treasury thirty dollars, for which he shall take duplicate receipts; one of which receipts he shall deliver to the Secretary of State, when he presents his petition; and the money thus paid shall be in full for the sundry services to be performed in the office of the Secretary of State consequent on such petition, and shall pass to the account of clerk hire in that office: *Provided, nevertheless,* That, for every copy which may be required at the said office of any paper respecting any patent that has been granted, the person obtaining such copy shall pay at the rate of twenty cents for every copy sheet of one hundred words; and for every copy of a drawing, the party obtaining the same shall pay two dollars: of which payments, an account shall be rendered annually to the Treasury of the United States, and they shall also pass to the account of clerk hire in the office of the Secretary of State.

SEC. 12. *And be it further enacted,* That the act passed the tenth day of April, in the year one thousand seven hundred and ninety, entitled "An

act to promote the progress of useful arts," be, and the same is hereby, repealed: *Provided, always,* That nothing contained in this act shall be construed to invalidate any patent that may have been granted under the authority of said act: and all patentees under said act, their executors, administrators, or assigns, shall be considered within the purview of this act, in respect of the violation of their rights, provided such violations shall be committed after the passing of this act.

JONATHAN TRUMBULL,
*Speaker of the House of Representatives.*

JOHN ADAMS,
*Vice President of the United States and President of the Senate.*

Approved, February 21, 1793.

GEORGE WASHINGTON,
*President of the United States.*

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*An act to extend the privilege of obtaining patents for useful discoveries and inventions to certain persons therein mentioned, and to enlarge and define the penalties for violating the rights of patentees.*

SEC. 1. *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,* That all and singular the rights and privileges given, intended, or provided, to citizens of the United States, respecting patents for new inventions, discoveries, and improvements, by the act entitled "An act to promote the progress of useful arts, and to repeal the act heretofore made for that purpose," shall be, and hereby are, extended and given to all aliens who, at the time of petitioning in the manner prescribed by the said act, shall have resided for two years within the United States; which privileges shall be obtained, used, and enjoyed, by such persons, in as full and ample manner, and under the same conditions, limitations, and restrictions, as by the said act are provided and directed in case of citizens of the United States: *Provided, always,* That every person petitioning for a patent for any invention, art, or discovery, pursuant to this act, shall make oath or affirmation before some person duly authorized to administer oaths, before such patent can be granted, that such invention, art, or discovery, hath not, to the best of his or her knowledge or belief, been known or used either in this or any foreign country; and that every patent which shall be obtained pursuant to this act for any invention, art, or discovery, which it shall afterwards appear had been known or used previous to such application for a patent, shall be utterly void.

SEC. 2. *And be it further enacted,* That, where any person hath made, or shall have made, any new invention, discovery, or improvement, on account of which a patent might, by virtue of this or the abovementioned act, be granted to such person, and shall die before any patent shall be granted therefor, the right of applying for and obtaining such patent shall devolve on the legal representatives of such person, in trust for the heirs at law of the deceased, in case he shall have died intestate; but if otherwise, then in trust for his devisees, in as full and ample manner, and under the same conditions limitations, and restrictions, as the same was held, or might have been claimed or enjoyed, by such person, in his or her lifetime: and when application for a patent shall be made by such legal representatives, the oath or affirmation provided in the third section of the beforementioned act shall be so varied as to be applicable to them.

SEC. 3. *And be it further enacted*, That, where any patent shall be, or shall have been granted pursuant to this or the abovementioned act, and any person, without the consent of the patentee, his or her executors, administrators, or assigns, first obtained in writing, shall make, devise, use, or sell the thing whereof the exclusive right is secured to the said patentee by such patent, such person so offending shall forfeit and pay to the said patentee, his executors, administrators, or assigns, a sum equal to three times the actual damage sustained by such patentee, his executors, administrators, or assigns, from or by reason of such offence; which sum shall and may be recovered by action on the case, founded on this and the abovementioned act, in the circuit court of the United States having jurisdiction thereof.

SEC. 4. *And be it further enacted*, That the fifth section of the abovementioned act, entitled "An act to promote the progress of useful arts, and to repeal the act heretofore made for that purpose," shall be, and hereby is, repealed.

THEODORE SEDGWICK,
*Speaker of the House of Representatives.*

THOS. JEFFERSON,
*Vice President of the United States, and President of the Senate.*

Approved, April 17, A. D. 1800.

JOHN ADAMS,
*President of the United States.*

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*An act to extend the jurisdiction of the circuit courts of the United States to cases arising under the law relating to patents.*

SEC. 1. *Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled*, That the circuit courts of the United States shall have original cognizance, as well in equity as at law, of all actions, suits, controversies, and cases, arising under any law of the United States granting or confirming to authors or inventors the exclusive right to their respective writings, inventions, and discoveries; and, upon any bill in equity filed by any party aggrieved in any such cases, shall have authority to grant injunctions, according to the course and principles of courts of equity, to prevent the violation of the rights of any authors or inventors secured to them by any laws of the United States, on such terms and conditions as the said courts may deem fit and reasonable: *Provided, however*, That, from all judgments and decrees of any circuit courts rendered in the premises, a writ of error or appeal, as the case may require, shall lie to the Supreme Court of the United States, in the same manner, and under the same circumstances, as is now provided by law in other judgments and decrees of such circuit courts.

H. CLAY,
*Speaker of the House of Representatives.*

DANIEL D. TOMPKINS,
*Vice President of the United States, and President of the Senate.*

Approved, February 15, A. D. 1819.

JAMES MONROE,
*President of the United States.*

# A DIGEST OF DECISIONS

## UNDER THE LAWS OF THE UNITED STATES RELATING TO PATENTS FOR NEW AND USEFUL INVENTIONS.

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### ON THE AFFIDAVIT.

1. *The taking of the oath required by the patent act previous to the issuing of a patent is but a pre-requisite to the granting of the patent, and in no degree essential to its validity; and if not taken, still the patent is valid.*

In the case of Whittemore *v.* Cutter, (1 Gallison's Rep. 429,) Judge Story observed, "The statute requires that the patentee shall swear 'that he is the true inventor or discoverer of the art, machine, or improvement.' The oath taken by *Whittemore* was, that he was the 'true *inventor* or *improver* of the machine.' The taking of the oath was but a pre-requisite to the granting of the patent, and in no degree essential to its validity. It might as well have been contended that the patent was void, unless the thirty dollars required by the 11th section of the act had been previously paid."

2. *The affidavit may be referred to for the removal of obscurity in the specification.*

In Pettibone *v.* Derringer, (C. C. U. S. P. October, 1818, M. S.) Judge Washington said that "there can be no doubt that when the construction of the patent and specification, as to the subject of the grant, is *doubtful*, the affidavit, if more precise, may be resorted to for explanation, and to remove ambiguity."

3. *The oath required of an alien places him on grounds somewhat different from those of a citizen.*

In Morris *v.* Huntington, (1 Paine's Rep. 353,) Judge Thompson, in reference to the proviso in the first section of the law of 1800, requiring aliens to swear that the invention has not been known or used in this or any foreign country, says that "it puts the alien on grounds somewhat different from those of a citizen, requiring an oath of something more than is required of a citizen." "It seems reasonable to restrict an alien in this manner from taking out a patent for what has been in use abroad, inasmuch as our own citizens could not patent a foreign invention."

### ON THE DESCRIPTION OR SPECIFICATION.

4. *The patentee must describe in his patent in what his invention consists, with reasonable certainty; otherwise, it is void for ambiguity.*

In Lowell *v.* Lewis, (1 Mason's Rep. 189,) Judge Story says, "The law confers an exclusive patent right on the inventor of any thing new and useful, as an encouragement and reward for his ingenuity, and for the expense

and labor attending the invention. But this monopoly is granted for a limited term only, at the expiration of which the invention becomes the property of the public. Unless, therefore, such a specification be made as would, at all events, enable other persons of competent skill to construct similar machines, the advantage to the public, which the act contemplates, would be entirely lost, and its principal object would be defeated. It is not necessary, however, that the specification should contain an explanation level with the capacities of every person, (which would perhaps be impossible,) but, in the language of the act, it should be expressed in such full, clear, and exact terms, that a person skilled in the art or science of which it is a branch would be enabled to construct the patented invention."

In Sullivan *v.* Redfield, (1 Paine, 450,) Judge Thompson observes, "Both the policy and the language of the act of Congress require that the specification should be clear, plain, and intelligible, so that others may be taught by it to make or do the thing for which the patent is granted."

5. *Under the patent act, no defect or concealment in any specification is sufficient to avoid a patent, unless it be with intent to deceive the public.*

In Gray and Osgood *v.* James *et al.*, (1 Peters' C. C. Rep. 401,) Judge Washington said, "But, if the jury should be of opinion that the specification is materially defective, the objection will not be sufficient to invalidate the plaintiff's patent, unless they should also be satisfied that the concealment of the circumstances not described was intended to deceive the public. What degree of evidence ought to be required to prove such fraudulent intention, must rest with the jury to decide. Positive evidence can seldom be expected, nor is it necessary. The law, it is true, requires that such intention should fully appear; but still it may be presumed from circumstances entirely to the satisfaction of the jury, which would be sufficient to authorize them to find the fact." For similar opinions, see also Lowell *v.* Lewis, (1 Mason, 190,) and Whittemore *v.* Cutter, (436.)

6. *When a patent is taken out for an improvement, the specification ought to describe what the improvement is; and the patent should be limited to such improvement.*

In Woodcock *v.* Parker *et al.*, (1 Gallison, 439,) Judge Story directed the jury as follows: "If the machine for which the plaintiff obtained a patent substantially existed before, and the plaintiff made an improvement only therein, he is entitled to a patent for such improvement only, and not for the whole machine; and under such circumstances, as this present patent is admitted to comprehend the whole machine, it is too broad, and therefore void."

In Whittemore *v.* Cutter, (1 Gallison, 480,) Judge Story observes, in his directions to the jury, "that, where a specific machine exists, producing certain effects, if a mere addition is made to such a machine, *to produce the same effects* in a better manner, a patent cannot be taken for the whole machine, but for the improvement only. In like manner, if to an old machine some new combinations be added to produce *new effects*, the right to a patent is limited to the new combinations."

In Barrett *et al.* *v.* Hall *et al.*, (1 Mason, 475,) Judge Story says, "If a patent be for an improved machine, or for an improvement of a machine, (for I

follow Mr. Justice Heath and the Supreme Court in thinking that the meaning of the terms is substantially the same,) then the patent must state in what the improvement specifically consists, and it must be limited to such improvement. If, therefore, the terms be so obscure or doubtful that the court cannot say what is the particular improvement which the patentee claims, and to what it is limited, the patent is void for ambiguity; and if it covers more than the improvement, it is void for another reason—that it is broader than the invention."

"Further: where a combination of machinery already exists up to a certain point, and the patentee makes an addition or improvement to the machinery, he must confine his patent to the improvement; for, if he takes a patent for the whole machine, not distinguishing between the new and old, nor limiting his patent to the improvement, it is void, because, as so claimed, it is not his invention."

A contrary opinion, it appears, was entertained by Judge Livingston: in the case of Goodyear *v.* Matthews, (1 Paine, 300,) he gives it as his opinion, that a patent for an entire machine is valid, although the invention consists only of an improvement on such machine. His words are, "If a patent be taken out for an entire machine, when the invention consists only of an improvement on such machine, it is said by the defendant's counsel that the whole patent is void: this, gentlemen, is not the opinion of the court; for, although a patent be obtained for more than the improvement, the patentee is not entitled to more than his improvement; nor is he at liberty to make, use, or vend the original discovery, or to prosecute any person who shall use such original discovery without engrafting on it the improvement invented by the patentee."

This opinion does not appear to have been sustained by any other Judge in the cases which have been reported. Those given in Woodcock *v.* Parker, Whittemore *v.* Cutter, and Barrett *v.* Hall, are directly adverse, and there are several others of the same tenor. In Lowell *v.* Lewis, (1 Mason, 187,) Judge Story says, "I accede at once to the doctrine of the authority which has been cited, that the patentee is bound to describe in full and exact terms in what his invention consists; and if it be an improvement only upon an existing machine, he should distinguish what is new and what is old in his specification, so that it may clearly appear for what the patent is granted." "The patentee is clearly not entitled to include in his patent the exclusive use of any machinery already known; and if he does, his patent will be broader than his invention, and consequently void. If, therefore, the description in the patent mixes up the old and the new, and does not distinctly ascertain for which, in particular, the patent is claimed, it must be void; since, if it covers the whole, it covers too much; and, if not intended to cover the whole, it is impossible for the court to say what, in particular, is covered as the new invention." "It is however, sufficient, if what is claimed as new appear with reasonable certainty on the face of the patent, either expressly or by necessary implication." In the case of Evans *v.* Eaton, (1 Peters' C. C. Rep. 342,) Judge Washington charged the jury, that "the grant can only be for the discovery as recited and described in the patent and specification. If the grantee is not the original discoverer of the art or machine for which the grant is made, the whole is void. If, therefore, the patent be for the whole of a machine, and the discovery was only of an improvement, the patent is void." In Sullivan *v.* Redfield, (1 Paine, 450,) Judge Thompson says, "This specification is obviously broader than the patent: the latter is

for an improvement in the steam tow-boat; the former contains a description of the steam tow-boat itself, of which the complainant claims to be the inventor, according to his specification. The patent and specification are connected together, and dependent on each other for support." Numerous other cases might be adduced, in which opinions have been given which go to sustain the foregoing rule, the correctness of which seems to have been impeached only in one instance.

7. *Where a patent is for several improvements in a machine, and each improvement is summed up in the patent as the invention of the patentee, if any one of the improvements is found not to be new, his patent is void.*

This rule was laid down by Judge Story, in Moody *v.* Fisk *et al.*, (2 Mason, 112.) He observes that, "Where a patentee, in his specification, states and sums up the particulars of his invention, and his patent covers them, he is confined to such summary; and he cannot afterwards be permitted to sustain his patent, by showing that some part which he claims in his summing up as his invention, though not in fact his invention, is of slight value or importance to his patent. His patent covers it, and, if it be not new, the patent must be void."

8. *Where several improvements in a machine are distinctly claimed in a patent, an action lies for the piracy of any of the improvements, although the defendants have not used the whole of the improvements.*

In the case last cited, Judge Story said, "But after a good deal of reflection on it, I have come to the result, that, where the plaintiff claims, as in this case, several distinct and independent improvements in the same machine, and procures a patent for them in the aggregate, he is entitled to recover against any person who shall use any one of the improvements so patented, notwithstanding there has been no violation of the other improvements. In such a case, the patent goes for the whole of the improvements; and if each be new, and claimed distinctly in the patent as such, there does not seem any good reason why the party who pirates any part of the invention should not be liable in damages."

ON THE ORIGINALITY OF THE INVENTION.

9. *The first inventor who has put the invention in practice, and he only, is entitled to a patent. Every subsequent patentee, although an original inventor, may be defeated of his patent right, upon proof of such prior invention put in actual use. The law in such case adopts the rule, qui prior est in tempora, potior est in jure.*

*In order to defeat a subsequent patent, it is not necessary to prove that the invention has been in general use, and generally known. It is sufficient if the same invention has been previously known, and put in actual use, however limited the use or the knowledge of the invention might have been.*

In Bedford *v.* Hunt *et al.*, (1 Mason, 302,) Judge Story charged the jury that "The intent of the statute was to guard against defeating patents, by the setting up of a prior invention, which had never been reduced to practice. If it were the mere speculation of a philosopher or a mechanician, which had never been tried by the test of experience, and never put into actual ope-

ration by him, the law would not deprive a subsequent inventor, who had employed his labor and his talents in putting it into practice, of the reward due to his ingenuity and enterprise. But if the first inventor reduced his theory to practice, and put his machine or other invention into use, the law never could intend that the greater or less use in which it might be, or the more or less widely the knowledge of its existence might circulate, should constitute the criterion by which to decide upon the validity of any subsequent patent for the same invention. I hold it, therefore, to be the true interpretation of this part of the statute, that any patent may be defeated by showing that the thing secured by the patent had been discovered and put in actual use prior to the discovery of the patentee, however limited the use or the knowledge of the prior discovery might have been."

In the case of Evans *v.* Eaton, (1 Peters' C. C. R. 342) Judge Washington says, "The discovery must be not only useful, but *new;* it must not have been known or used before in any part of the world." "It is contended by the plaintiff's counsel, that the title of the patentee cannot be impeached, unless it is shown that he knew of a prior discovery of the same art, machine, &c., and that *true* and *original* are synonimous in the intention of the legislature.

"As it is not pretended that *true* and *original* mean the same thing in common parlance, I proceed to inquire whether the legislature intended to use them as such. As to this there can scarcely be two opposed opinions. The first section, referring to the allegations of the applicant for a patent, speaks of the discovery as something *not known or used before the application;* and in the sixth section, it is declared, that the defendant may give in evidence that the thing secured by patent was not *originally* discovered by the patentee, but had been in use, or had been described in some public work, *anterior to the supposed discovery.* Now if *original* does not mean *first*, the preceding expressions, in the first and sixth sections, most certainly do."

This case was carried up to the Supreme Court by a writ of error, and, in its final decision, the foregoing opinions confirmed. (See 3 Wheaton's S. C. R.) The opinion of the court was delivered by Ch. J. Marshall, who says, "It may be that the patentee had no knowledge of this previous use or previous description; still his patent is void: the law supposes he may have known it, and the charge of the judge, which must be taken as applicable to the testimony, goes no farther than the law."

ON THE OBTAINING OF TWO SEPARATE PATENTS FOR THE SAME INVENTION.

10. *An inventor cannot, under the patent laws of the United States, have two subsisting valid patents at the same time for the same invention. The first that he obtains, while it remains unrepealed, is an estoppel to any future patent for the same invention, founded upon the general patent act.*

In the case of Odiorne *v.* The Amesbury Nail Factory, (2 Mason, 28,) Judge Story said, "It cannot be that a patentee can have in use at the same time two valid patents for the same invention; and if he can successively take out at different times new patents for the same invention, he may perpetuate his exclusive right during a century, whereas the patent act confines this right to 14 years from the date of the first patent. If this proceeding could obtain countenance, it would completely destroy the whole considera-

tion derived by the public for the grant of the patent, viz: the right to use the invention at the expiration of the term specified in the original grant. I hold it to be the necessary conclusion of law, that the inventor can have but a single valid patent for his invention; and that the first he obtains, while it remains unrepealed, is an estoppel to any future patent for the same invention, founded upon the general patent act. The public have by the first patent acquired an inchoate interest, which cannot be defeated by any merely ministerial act of the officers of the Government."

In the case of Morris *v.* Huntington, (1 Paine, 348,) a similar opinion was given by Judge Thompson. He says, "The next question is, whether it is not a valid objection to the second patent, that the patentee has a prior patent for the same thing, not surrendered, repealed, or declared void."

"I think this objection insurmountable. A prior patent must be got rid of before a second can be taken out. Why should a second patent be taken out before a prior one is avoided, although invalid, if the patentee is enjoying the full benefit of it."

ON PATENTS SURRENDERED, OR DECLARED VOID.

11. *The obstacle of an invalid patent may be removed by having a vacature entered, ex parte, in the Department of State, on the surrender of the patent; but on surrendering a patent, and taking out a new one, the latter should be only for the unexpired part of the* 14 *years since obtaining the first patent.*

The foregoing is not to be considered as a point ruled, but merely as a suggestion of the court. In the case of Morris *v.* Huntington, (1 Paine, 355,) Judge Thompson uses the following language:

"Besides, I see no insuperable objection to entering a *vacatur* of the patent of record in the Department of State, if taken out inadvertently and by mistake. All the proceedings in that Department on the subject of patents are *ex parte*, except in the case of interfering applications. The Department act rather ministerially than judicially, and upon the representation of the applicant, without entering into the question of right; and there seems to be no good reason why, on a like *ex parte* application, the patent may not be surrendered, and cancelled of record, if no misconduct be imputable to the patentee in taking it out. And in such case, as the exclusive right is not to exceed 14 years, the second patent may be limited according to circumstances, and thereby secure both to the patentee and the public their respective rights."

The case which gave rise to this suggestion was tried in New York, in April term, 1824; and since that period, a considerable number of patents have been surrendered, and new ones issued, with amended specifications, for the unexpired part of the 14 years. The question, however, of the validity of a patent thus re-issued, has never been finally settled. In the last May term (1830) of the circuit court, held in the city of New York, the same question was raised in the case of Townsend and Grant *v.* Raymond, and the judges differing in opinion on the subject, it was determined to carry the case before the Supreme Court at Washington. This point, therefore, will probably be settled at an early day.

Connected with this question is another, which, it is believed, remains in a similar unsettled state, namely, *whether a new patent can be taken out*

*where a former one has been declared void under the sixth section of the act of* 1793.

In a case before quoted, (Morris *v.* Huntington,) Judge Thompson observes, that "Whether, after the first patent has been declared void, after verdict under the sixth section, in a case free of fraud, a new patent can be taken out, is a question which does not here arise. But I am inclined to think that a surrender of the prior patent might be made, and that the Secretary of State might grant a new one, under a statement of the circumstances, although not for the period of fourteen years from the date of the second patent, as the patentee has enjoyed the exclusive right for a part of the fourteen years."

In the case of Barrett *v.* Hall, (1 Mason, 473,) Judge Story makes the following remark: "I have very great doubts, whether, when a patent is once granted to any person for an invention, he can legally acquire any right, under a subsequent patent, for the same invention, unless his first patent be repealed for some original defect, so that it might truly be said to be a void patent.

ON WHAT CONSTITUTES AN ABANDONMENT OF A RIGHT TO A PATENT.

12. *An inventor may abandon his invention, and surrender it to the public. This inchoate right, once gone, cannot afterwards be resumed at pleasure.*

The question has been frequently agitated, whether an inventor could sustain a claim to a patent which he had obtained after having allowed his invention to go into public use. In the case of Morris *v.* Huntington, (1 Paine, 345,) Judge Thompson observes, that "No man is permitted to lie by for years, and then take out a patent. If he has been practising his invention with a view of improving it, and thereby rendering it a greater benefit to the public, before taking out his patent, that ought not to prejudice him. But it should always be a question submitted to the jury, what was the intent of the delay of the patent, and whether allowing the invention to be used without a patent should not be considered as an abandonment, or present of it to the public."

There are several cases upon record in which similar opinions were expressed by the court; but this question was finally brought before the Supreme Court, on a writ of error to the circuit court for the eastern district of Pennsylvania, in January term, 1829, in the case of Pennock and Sellers *vs.* Dialogue. (2 Peters' S. C. R. 1.) The plaintiffs had instituted their suit against the defendant for an infringement of a patent right for "an improvement in the art of making tubes or hose, for the conveying of air, water, and other fluids." The invention claimed by the patentees was the mode of making the hose, by rivetting the seams together, so that they would be tight, and as capable of resisting presure as any other part of the machine.

From the evidence given in the circuit court, it appeared that the invention was completed in 1811, but that the letters patent were not obtained until 1818; and that, in the interval, upwards of thirteen thousand feet of the hose were made and sold by an individual who had been instructed in the mode of making, and permitted to sell it by the inventors. It was not alleged on the part of the plaintiffs, that, during the period which had elapsed, the manufacture had undergone any important modification or improvement; but they claimed that all the hose which had been made and sold had been so made and sold under their permission.

Upon the whole evidence of the case, the circuit court, by Judge Washington, charged the jury as follows: "We are clearly of opinion, that, if an inventor makes his discovery public, looks on, and permits others freely to use it without objection, or assertion of claim to the invention, of which the public might take notice, he abandons the inchoate right to the exclusive use of the invention, to which a patent would have entitled him, had it been applied for before such use. And we think it makes no difference in the principle, that the article so used, and afterwards patented, was made by a particular individual, who did so by the private permission of the inventor. As long as an inventor keeps to himself the subject of his discovery, the public cannot be injured; and even if it be made public, but accompanied by an assertion of the inventor's claim to the discovery, those who should make or use the subject of the invention would at least be put upon their guard. But if the public, with the knowledge and tacit consent of the inventor, is permitted to use the invention without opposition, it is a fraud upon the public afterwards to take out a patent."

Upon this charge the jury gave a verdict for the defendant.

The Supreme Court, in reviewing the above case, considered the only question before them to be, "Whether the charge of the court was correct in point of law:" and Mr. Justice Story, in delivering the opinion of the Supreme Court, observed, that "it has not been, and indeed cannot be, denied, that an inventor may abandon his invention, and surrender or dedicate it to the public. This inchoate right, thus once gone, cannot afterwards be resumed at his pleasure; for when gifts are once made to the public in this way, they become obsolete." "The question which generally arises at trials is a question of fact, rather than of law—whether the acts or acquiescence of the party furnish, in the given case, satisfactory proof of an abandonment or dedication of the invention to the public."

The facts stated in the charge of the court, it is observed, are not to be reviewed independently of statutable provisions—the proper exposition of the patent law being necessary to the correct answer to any such inquiry. The constitution gave to Congress power "to promote the progress of science and the useful arts, by securing, *for limited times*, to authors and inventors, the exclusive right to their respective writings or discoveries." The limited time, it is observed, was fixed by the act of 21st February, 1793, which also prescribes the terms and conditions which must be strictly complied with. The thing to be patented is to be such as was "not known or used before the application;" and the patent is granted "for a term *not* exceeding fourteen years," and "gives the full and exclusive right of *using, and vending to others to be used*, the said invention or discovery." A defendant charged with having infringed a patent may plead "that the thing was not originally discovered by the patentee, *but had been in use*, or had been described in some public work, anterior to the supposed discovery by the patentee."

These clauses of the act of 1793 were considered as materially bearing upon the question before the court. The words, *not known or used before the application*, it is observed, "cannot mean that the thing invented was not known or used before the application by the inventor himself; for that would be to prohibit him from the only means of obtaining a patent. The use as well as the knowledge of the invention must be indispensable to enable him to ascertain its competency to the end proposed, as well as to perfect its component parts. The words, then, to have any rational inter-

pretation, must mean, not known or used by others before the application. But how known or used? If it were necessary, as it well might be, to employ others to assist in the original structure or use by the inventor himself, or if, before the application for a patent, his invention should be pirated by another, or used without his consent, it can scarcely be supposed that the legislature had within its contemplation such knowledge or use."

"We think the true meaning must be, not known or used by the public before the application; and thus construed, there is much reason for the limitation thus imposed by the act." "If an inventor should be permitted to hold back from the knowledge of the public the secrets of his invention; if he should, for a long period of years, retain the monopoly, and make and sell his invention publicly, and thus gather the whole profits of it, relying upon his own superior skill and knowledge of the structure; and then, and then only, when the danger of competition should force him to secure the exclusive right, he should be allowed to take out a patent, and thus exclude the public from any further use than what should be derived under it during his fourteen years, it would materially retard the progress of science and the useful arts, and give a premium to those who should be least prompt to communicate their discoveries."

The opinion then notices the similarity of the provisions of the patent law of England, and that of the United States, as respects the requirement that the thing patented should be new; and, in the practice under the English law, cites the case of Wood *v.* Zimmerman, (1 Holt's N. P. Rep. 58,) where the inventor suffered the thing invented to be sold, and go into public use, for four months before the grant of his patent; when it was held by the court, that, on this account, the patent was utterly void. Lord Chief Justice Gibbs said, "The *public* sale of that which is afterwards made the subject of a patent, *though sold by the inventor only*, makes the patent void." It is then observed, that, although the words of our statute are not identical with that of England, yet their structure is so similar as to render it evident that they were in the contemplation of the framers of it. The hardship, it is said, which a particular construction of the words may be thought to import, cannot be made the rule of their interpretation. "If an invention is used by the public, with the consent of the inventor, at the time of his application for a patent, how can the court say that his case was, nevertheless, such as the act was intended to protect. If such a public use of it is not a use within the meaning of the statute, what other use is? If it be a use within the meaning of the statute, how can the court extract the case from its operation, and support a patent where the suggestions of the patentee are not true, and the conditions on which alone the grant was authorized to be made do not exist?"

The operation of laws having similar objects, the policy of bringing inventions into early use, and the fair construction of the words of the statute, are all considered as sustaining the opinion given, and manifesting the will of the legislature—a will which the court were bound to obey.

"It is admitted that the subject is not wholly free from difficulties; but, upon the most deliberate consideration, we are all of opinion that the true construction of the act is, that the first inventor cannot acquire a good title to a patent, if he suffers the thing invented to go into public use, or to be publicly sold for use, before he makes application for a patent. His voluntary act, or acquiescence in the public sale or use, is an abandonment of his

right, or rather creates a disability to comply with the terms and conditions on which alone the Secretary of State is authorized to grant him a patent."

"The opinion of the circuit court was, therefore, perfectly correct, and the judgment is confirmed, with costs."

13. *Our patent act differs from the English in several respects; a mere public use by others before taking a patent,* ON A SALE *thereof by the inventor, is not decisive against him here, as in England.*

In the case of Mellus *v.* Silsbee, (4 Mason, 108,) Judge Story notices the difference between the language and effect of our statute, and that of England. The English statute provides for the granting of patents for "the sole working or making of any manner of *new* manufactures *within this realm*, to the *true* and *first* inventor, and of such manufactures which *others at the time of making such letters patent and grant, shall not use.*" Upon which it has been there held, "that the public sale of it by the inventor to other persons for use, makes the patent void. It is not then *new* to the realm, but is used by others, within the meaning of the statute."

"Our patent act," Judge Story observes, "uses language somewhat different. The first section declares that 'when any person or persons, &c. shall allege that he or they have invented any *new* and *useful* art, machine, manufacture, or composition of matter, *not known or used before the application*,' he or they shall be entitled to a patent. If this were all, there would be great difficulty is construing the words 'not known or used before the application' differently from the words of the English statute, 'which others, at the making of the letters patent and grant, shall not use.' But the sixth section of our statute throws light on this subject, and enables the court to ascertain with more precision the intention of the legislature That section authorizes the defendant to give certain matters in evidence, by way of defence, under the general issue, upon proper notice; and among other things, 'that the thing secured by patent was not originally discovered by the patentee, but had *been in use*, or had been described in some public work, anterior to the supposed discovery of the patentee.' Upon these clauses, it has been uniformly held, that it must be shown that the invention is new, not only in the United States, but to the world; and that it was not in use before the asserted discovery. The fact of its being *in use* before his discovery, is, by the sixth section, made decisive against the patentee. Now, if the intention of the legislature had been, by the first section, to provide that the mere fact of the invention being 'known or used,' even with the inventor's permission, before the *application* for a patent, should destroy his right, however otherwise well founded, it is strange that the use should be limited in the 6th section to the time of such *application*, instead of the 'supposed discovery.' The sixth section manifestly proceeds upon the ground that the same thing being in use at the time of the supposed discovery, establishes that there is nothing new in the invention; but it may be known and used at the time of the application for a patent, and yet the applicant have been the true and first discoverer. And the words of the first section are susceptible of the same construction. The thing sought to be patented must be something 'not known or used' by others before, but must be *first* known or *first* used by the person claiming to be the inventor; that is, others must not have known or used it before his discovery. Upon any other construction, if a party were the true and first inventor, yet if, before his application for a patent, another were to know his inven-

tion or use it, piratically or innocently, the first inventor would be ousted of his right to a patent, which is inconsistent with the spirit of the act. Construing, therefore, the first section by the sixth, it seems to me that the true meaning is, that the first inventor has a right to a patent, though there may have been a knowledge and use of the thing invented, by others, before his application for a patent, if such knowledge or use was not anterior to his discovery."

ON THE ACCEPTATION OF THE WORD PRINCIPLE, AS APPLIED TO A MACHINE.

14. *A patent for a machine to effect a particular object, as, for example, "for an improvement in the art of making nails, by means of a machine which cuts and heads the nail at one operation," is not a grant of an abstract principle, nor is it the grant of the different parts of any machine, but of an improvement applied to a particular use, effected by a combination of various mechanical powers to produce a new result.*

In the case of Gray and Osgood *v.* James *et al.*, (1 Peters' C. C. R. 400,) Judge Washington says, "The next reason assigned against the validity of the plaintiffs' patent, is, that it is too broad; or, if it is not so, that it is for a principle merely."

"The court is of the opinion that there is not the slightest foundation for this objection. The patent is supposed to be for the machine itself, which is composed of parts which have long become public property. This is not the fact. The patent is for an improvement in the art of making nails by means of a machine which cuts and heads the nails at one operation. It is, therefore, not the grant of an abstract principle; nor is it the grant of the different parts of any machine, but an improvement applied to a practical use, effected by a combination of various mechanical powers to produce a new result. The lever, the vice, the cutters, the dies, &c., may be used by any person without a violation of the plaintiffs' patent. But they cannot be used in their combined state, to produce, by the same operation, the same result, which is the distinguishing characteristic of the plaintiffs' machine, without a license from the owners."

In the case of Whittemore *v.* Cutter, (1 Gallison, 480,) Judge Story, in his direction to the jury, says, "that a patent can in no case be for an effect only, but for an effect produced in a given manner, or by a peculiar operation. For instance, no patent can be obtained for the admeasurement of time or the expansive operation of steam, but only for a new mode, or new application of machinery, to produce these effects; and therefore, if new effects are produced by an old machine in its unaltered state, I apprehend that no patent can be legally supported; for it is a patent for an effect only."

"By the principles of a machine (as these words are used in the statute) is not meant the original elementary principles of motion, which philosophy and science have discovered, but the *modus operandi*, the peculiar device, or manner of producing any given effect. The expansive powers of steam and the mechanical powers of wheels have been understood for many ages; yet a machine may well employ either the one or the other, and yet be so entirely new in its mode of applying these elements as to entitle the party to a patent for his whole combination. The intrinsic difficulty is to ascertain, in complicated cases like the present, the exact boundaries between what was known and used before, and what is new, in the *mode* of operation."

In the case of Barrett *et al v.* Hall *et. al.*, (1 Mason, 470,) Judge Story, in his charge to the jury, says, "As to the opinion of skilful witnesses, whether the principles of two machines are the same, no person doubts that it is competent evidence to be introduced into a patent cause. But care should be taken to distinguish what is meant by a principle. In the minds of some men, a principle means an elementary truth or power, so that, in the view of such men, all machines which perform their appropriate functions by motion, in whatever way produced, are alike in principle, since motion is the element employed. No one, however, in the least acquainted with law, would for a moment contend that a principle in this sense is the subject of a patent; and if it were otherwise, it would put an end to all patents for all machines which employed motion; for this has been known as a principle, or elementary power, from the beginning of time. The true legal meaning of the principle of a machine, with reference to the patent act, is the peculiar structure or constituent parts of such machine. And in this view, the question may be very properly asked, in cases of doubt or complexity, of skilful persons, whether the principles of two machines be the same or different? Now, the principles of two machines may be the same, although the form or proportions may be different. They may substantially employ the same power in the same way, though the external mechanism be apparently different. On the other hand, the principles of two machines may be very different, although their external structure may have great similarity in many respects."

ON THE INTENTION OF THE TERM "USEFUL INVENTION."

15. *The law allows a party a patent for a new and useful invention; and by "useful invention" is meant, not an invention in all cases superior to the modes now in use for the same purpose, but useful in contradistinction to frivolous or mischievous inventions.*

In the case of Lowell *v.* Lewis, (1 Mason, 186,) Judge Story, in his charge to the jury, said, "All that the law requires is, that the invention should not be frivolous or injurious to the well being, good policy, or sound morals of society. The word *useful*, therefore, is incorporated into the act in contradistinction to mischievous or immoral. For instance, a new invention to poison people, or to promote debauchery, or to facilitate private assassination, is not a patentable invention; but if the invention steers wide of these objections, whether it be more or less useful, is a circumstance very material to the interests of the patentee, but of no importance to the public."

A similar opinion will be found in Bedford *v.* Hurd *et al.*, (1 Mason, 303.)

16. *An invention of an ornamental mode of putting up thread, which gave it no additional value, but merely made it sell more readily at retail, and for a larger price, was held not useful within the meaning of the patent law.*

In the case of Langdon *v.* De Groot, (1 Paine 204,) Judge Livingston, in his charge to the jury, said, "To what extent an invention must be useful, to render it the subject of a patent, will depend upon the particular circumstances of each case, and for which no general rule can be given; but all will agree that it must, in some small measure at least, be beneficial to the com-

munity; and when it becomes a matter of inquiry whether its benefits are of sufficient consequence to be protected by the arm of government, it may be proper to leave such question with the jury."

"But when the objection raised is, that the invention, on the plaintiff's own showing, is not only of no use, but an imposition on the public, it may be doubted whether a court transcends its prescribed limits in taking upon itself, as was done here, a decision of it."

"The invention is for folding the thread and floss cotton in a manner a little different from the ordinary mode, in which form the cotton will sell quicker and higher by 25 per cent. than the same cotton put up in the ordinary way. The cotton thus folded is imported from the manufactory of Holt, in England; the article itself undergoes no change; and the whole of the improvement, for it is a patent for an improvement, consists in putting up skeins of it, perhaps of the same size in which they are imported, decorated with a label and a wrapper, thus rendering their appearance somewhat more attractive, and inducing the unwary not only to give it a preference to other cotton of the same fabric, quality, and texture, but to pay an extravagant premium for it. When stripped of these appendages, which must be done before it is used, the cotton is no better, in any one respect, than that of Holt's, retailed in the way put up by him. All this came out on the plaintiff's own testimony."

"Now, that such a contrivance, (for with what propriety can it be termed a useful art within the meaning of the constitution?) may be beneficial to a patentee, if he can exclude from the market all other retailers of the same article, will not be denied; and if to protect the interest of a patentee, however frivolous, useless, or deceptive, his invention may be, were the sole object of the law, it must be admitted that the plaintiff has made out a satisfactory title to his patent."

ON A JOINT PATENT FOR A JOINT INVENTION, AND ON JOINT AND SEVERAL PATENTS FOR THE SAME INVENTION.

17. *There may be a joint patent for a joint invention; but a joint patent cannot be sustained on a sole invention.*

In the case of Barrett *v.* Hall, (1 Mason, 472,) Judge Story says, "A joint patent may well be granted upon a joint invention. There is no difficulty in supposing, in point of fact, that a complicated invention may be the gradual result of the combined mental operations of two persons acting together, *pari passu*, in the invention; and if this be true, then, as neither of them could justly claim to be the sole inventor, in such a case it must follow that the invention is joint, and that they are jointly entitled to a patent; and so are the express words of the patent act, which declares that if any person or persons shall allege that he or they have invented, &c., a patent shall be granted to him or them for the invention."

"In the next place, a joint patent cannot be sustained upon a sole invention of either of the patentees; for the patent act gives no right to a patent, except to the inventor, and requires an oath from the party who claims the patent that he is the true inventor."

18. *The same persons cannot, at the same time, hold, jointly and severally, valid patents for the same invention.*

In the case last cited, the rule is laid down, that "a joint patent for an

invention is utterly inconsistent with several patents for the same invention by the same patentees; for it is impossible that any person can be at the same time the joint and sole inventor of the same invention. If, therefore, each of the joint patentees obtain a several patent for the same invention, as his own exclusive invention, and afterwards, without surrendering the first patent, they obtain a joint patent for the same as a joint invention, either the former sole patents are void, or the joint patent is void. For, besides the apparent inconsistency of the patents, if all could be sustained, then a recovery upon the joint patent would be no bar to a suit upon the several patents, and the parties might obtain a double recompense for the same infringement. There is an additional reason, which deserves great consideration; and that is, that, if sole and joint patents could be sustained by the same parties for the same invention, they might be successively taken out, so that the term of the exclusive right might be prolonged for a great length of time, instead of being limited to fourteen years."

ON THE RENEWAL OF A PATENT AFTER THE EXPIRATION OF ITS TERM.

19. *The term for which a patent is granted may be extended by an act of Congress.*

In the case of Evans *v.* Eaton, (1 Peters' C. C. R. 337,) Judge Washington says, "It is not true that the grant of an exclusive privilege to an invention for a limited time implies a binding and irrevocable contract with the people, that, at the expiration of the period, the invention shall become their property. The State has a perfect right to renew the grant at the end of the period, or to refuse to do so; and, in the latter case, it is a matter of course, that the invention may be used by any person who chooses to do so. In like manner may Congress renew a patent right, or decline to do so."

ON THE TRANSFER OF A PATENTEE'S RIGHT BY ASSIGNMENT.

20. *An assignment, in order to entitle the assignee of the patent right to sue in his own name alone, must be an assignment of the whole right.*

Under the patent law of 1793, an inventor or discoverer may transfer his right before a patent has issued, and the assignee may take out a patent; or the inventor or discoverer may take out a patent, and assign it afterwards. But to enable the assignee to "stand in the place of the original inventor," the whole right must be assigned.

In the case of Tyler *et al. v.* Tuel, (6 Cranch, 324,) the plaintiffs proved an assignment to them of the right of a certain patent, with the exception of four counties in the State of Vermont, which were named in the assignment. The case was taken up to the Supreme Court from the circuit court of Vermont. This court decided "that the plaintiffs, by their own showing, are not legal assignees to maintain this action."

21. *A patentee of an invention cannot maintain a suit, after he has made an assignment, for any violation of a patent, but the suit must be brought by the assignee.*

In the case of Herbert *v.* Adams, (4 Mason, 15,) it appeared in evidence that the plaintiff had made an assignment of his invention a few days previously to taking out his patent; and that the assignment was duly recorded in the Department of State. Judge Story said, "Under these circumstances, I

think the present suit cannot be maintained. The suit should have been brought in the name of the assignee. The assignment is not void by being executed before the invention was patented. It was a good transfer of the right of the patentee immediately upon his obtaining the patent, and he would be estopped to set up any adverse title. The subsequent infringement, if any, was a violation of the right of the assignee, not of the inventor; for, by the fourth section of the patent act, after an assignment is recorded, the assignee stands in the place of the original inventor, both as to right and responsibility."

22. *If a patentee has sold out a moiety of his patent right, a joint action lies by himself and his assignee for a violation of it.*

This rule was laid down in the case of Whittemore *v.* Cutter, (1 Gallison, 430.) Judge Story said, "The statute gives to the assignee all the right and responsibility which the original inventor had in the undivided portion of the patent which is conveyed; and an action may well be maintained by all the parties, who, at the time of the infringement, are the holders of the whole title and interest."

23. *A patentee is entitled to recover for a violation of his patent, excepting he has actually completed his assignment.*

In the case of Park *v.* Little & Wood, (3 Washington's C. C. R. 197,) Judge Washington charged the jury that "the plaintiff is entitled to recover at law, no matter what private agreement subsists between him and any other person, unless he has made a legal assignment and transfer of his interest in the invention."

ON THE BREACH OF THE RIGHTS OF A PATENTEE.

24. *The making of a patented machine fit for use, and with design to use it for profit, in violation of the patent right, is, of itself, a breach of the patent right, for which an action lies. But the making of a machine for the mere purposes of philosophical experiment, or to ascertain the verity and exactness of the specification, is not an infringement.*

In Whittemore *v.* Cutter, (1 Gallison, 432,) Judge Story observed, "It is now contended by the defendant's counsel, that the making of a machine is under no circumstances an infringement of the patent. The first section of the act of 1793 expressly gives to the patentee, &c., 'the full and exclusive right and liberty of *making*, constructing, using, and vending to others to be used, the invention or discovery. The fifth section of the same act gives an action against any person who 'shall make, devise, and use, or sell the same."

It is also observed in the same case, "that it could never have been the intention of the legislature to punish a man who constructed such a machine merely for philosophical experiments, or for the purpose of ascertaining the sufficiency of the machine to produce its described effects." A similar opinion may be found in Saurin *et al. v.* Gild, (1 Gallison, 487.)

25. *Under the general patent law, the plaintiff has a right to recover against a person who erected a machine prior to the issuing of a patent, and made use of it afterwards.*

In the case of Evans *v.* Weiss, (3 Hall's Am. L. Journal 180, N. S.)

Judge Washington says, "The next inquiry is, does the general law give to the plaintiff a right to recover against a person who erected a machine prior to the issuing of a patent to the first inventor of it, and who afterwards made use of the same?"

"The act of the 17th April, 1800, which, as to this point, is the only law now in force, declares that if any person, without permission from the inventor, shall make, devise, use, or sell the thing whereof the exclusive right is secured to the patentee, he shall pay three times the damage sustained by the patentee, to be ascertained by a jury. Now, whatever doubts might have existed as to the meaning of the words 'devise and use' in the 5th section of the act of 21st February, 1793, thus connecting the using with the devising of the improvement, there can be none under the 3d section of the act of 1800, which repeals the whole of the 5th section of the old law."

"It is plain that the *using* of the improvement invented by another, and secured by patent, is of itself an offence, no matter at what time such improvement was devised or made."

"The law in this case cannot be termed *ex post facto*, or even retrospective in its operation, because the general law declares beforehand that the right of the patent belongs to him who is the first inventor, even before the patent is granted; and, therefore, any person, who, knowing that another is the first inventor, yet, doubting whether that other will ever apply for a patent, proceeds to construct a machine of which, it may afterwards appear, he is not the first inventor, acts at his peril, and with a full knowledge of the law, that, by relation back to the first invention, a subsequent patent may cut him out of the use of the machine thus erected."

26. *When a party claims several distinct and independent improvements in the same machine, and procures a patent for them in the aggregate, he is entitled to recover against any person who shall use any one of the improvements so patented, notwithstanding there has been no violation of the other improvements.*

This rule was laid down by Judge Story, in the case of Moody *v.* Fisk, (2 Mason, 112.) He observes, that, where a patent is obtained for such improvements in the aggregate, "the patent goes for the whole of the improvements; and if each be new, and be claimed distinctly in the patent as such, there does not seem any good reason why the party who pirates any part of the invention should not be liable to damages."

"The principal difficulty that arises, is the application of the doctrine; and that may, in most cases, be removed by considering the nature and extent of the patent, or rather of the thing invented and patented. When the patent goes for the whole of a machine as a new invention, and the machine is in its structure substantially new, any person who pirates a part of the machine substantially new in its structure, deprives the inventor, so far, of his exclusive right in his invention, and may in a great measure destroy the value of the patent. When a patent is for several distinct improvements in an existing machine, or for an improved machine incorporating several distinct improvements, which are clearly specified there, if a person pirates one of the improvements, he violates the exclusive right of the patentee; for the patent is as broad as the invention, and the invention covers all the improvements; and it is a wrong done to the patentee to deprive him of his exclusive right in any of his improvements."

27. *Where a patent is for a new combination of existing machinery or machines, and does not specify or claim any improvements or inventions, except the combination, unless that combination be substantially violated, the patentee is not entitled to any remedy, although parts of the machinery be used by another, because the patent, by its terms, stands upon the combination only.*

The foregoing rule will also be found in the case last cited. The Judge observed that, "in such a case, proof that the machines, or any part of their structure, existed before, forms no objection to the patent, unless the *combination* has existed before, for the reason that the invention is limited to the combination. And yet, if the combination itself be not wholly new, but, up to a certain point, has existed before; and the patentee claims the whole combination as new, instead of his own improvement only, as by taking out a patent for a whole machine, doubtless his patent is void, for it exceeds his invention."

"But if there are different and distinct improvements, constituting parts of the combination, which are specified as such in the patent specification, and any one of them be pirated, the same rule would seem to apply as in cases where part of an invention is pirated; for the patent then shows that the invention is not limited to the mere combination, but including the particular improvements."

28. *Upon a plea of not guilty, the plaintiff must prove, not only that defendant has made a machine, but that it substantially resembles that for which the plaintiff has a patent.*

The foregoing and the three following points were decided in the case of Dixon *v.* Mayer, (C. C. U. S. P. April 1821, M. S.)

29. *It is not a defence, that the plaintiff was not himself the original projector of the improvement, if the patent was taken out with the knowledge and assent of the original projector, and not in fraud of his right.*

30. *The plaintiff must in all cases prove an infringement of his right subsequent to the date of his application or patent; but if the defendant attempts to avoid the patent by showing that plaintiff was not the original discoverer, the patent will be considered as relating back to the original discovery.*

31. *It lies on the defendant to show that some other person than the patentee was the original inventor; it is the point of his defence, and he must substantiate it.*

ON THE DAMAGES ALLOWED IN CASES OF INFRINGEMENT.

32. *In an action for the infringement of a patent right, the law gives to the plaintiff treble the actual damages, sustained by him: and the rule is to allow him treble the amount of the profits, actually received by the defendant, in consequence of his using the plaintiff's invention.*

The preceding rule will be found in Lowell *vs.* Lewis; (1 Mason, 184.) Judge Story, in his charge to the jury, says, "The jury are to find the single damages, and it is the proper duty of the court to treble them, in awarding the judgment. And let the damages be estimated as high as they can be, consistently with the rules of law upon this subject, if the plaintiff's patent

has been violated, that wrongdoers may not reap the fruits of the labor and genius of other men."

In the case of Whittemore *vs.* Cutter, (1 Mason, 483,) Judge Story said, "As to the rule by which the plaintiff's damages are to be estimated, it is clear by the statute that only the *actual damages* sustained can be given. By the terms 'actual damages' in the statute, are meant such damages as the plaintiff can actually prove, and have *in fact* sustained, as contradistinguished to mere imaginary or examplary damages, which in personal torts, are sometimes given."

"If the jury are of opinion that the user of a machine is actually proved in this case, the rule of damages should be the value of the use of such a machine, during the time of the illegal user."

"If the jury are of opinion that the making of a machine, only, is proved, as there is no evidence in the case to show any actual damages by the making, they ought to give nominal damages to the plaintiff, for where the law has given a right, and a remedy for the violation of it, such violation itself imports damages; and, in the absence of all other evidence, the law presumes a nominal damage to the party."

33. *In estimating the damages, the jury have no right to take into their consideration the counsel fees.*

This is established in the case of Arcamble *vs.* Wiseman, (3 Dallas' R. 306.) The circuit couat of the district of Rhode Island had decreed, among other things, the payment of 1600 dollars for counsel fees for the court below, and the Supreme Court of the United States struck this sum out. They said the general practice of the United States is in opposition to it; and even if that practice were not strictly correct, in principle, it is entitled to the respect of the court, till it is changed or modified by statute.

ON THE DEFENCES OF WHICH A DEFENDANT MAY AVAIL HIMSELF.

34. *The sixth section of the patent act does not enumerate all the defences of which the defendant may legally avail himself: he may give in evidence that he never did the act attributed to him; that the patentee is an alien, not entitled under the act; or that he has a license, or authority from the patentee.*

This rule will be found in the case of Whittemore *vs.* Cutter, (1 Gallison, 435.) In the case of Evans *vs.* Hettrick, (7 Wheaton,) the same doctrine was sustained by the court; and where the question asked was, whether the machine used by the defendant, was like the model exhibited in court, of the plaintiff's patented machine, it was *held* that no notice was necessary to authorize the enquiry.

In the case of Kneass *vs.* the Schuylkill Bank, (C. C. U. S. P. Oct. 1820, M. S.) the court observed, that, in an action for the violation of a patent, the defendant, under the general issue, without notice of the special matter, may give in evidence the act of Congress respecting patents, as well as some other matters than those enumerated in the sixth section, such as alienage of plaintiff, and license by him to use the invention. But he cannot give in evidence that the invention is not new, nor can that circumstance, however apparent, be judicially noticed by the jury. But defendant may make objections to the validity of a patent, of a different kind, such as the want of a specification or written description, as required by the 3d section, or a specification ambiguous and unintelligible, which is the same as no spe-

cification. These are defects in the plaintiff's title, apparent upon the face of the documents on which the title is founded. On the same ground, defendant may object that the patent is broader than the discovery; that it is for an improvement, which is not distinguished, in the specification, from the original invention; that the suggestions of the petition are not recited substantially in the patent.

35. *There is no limitation to the period in which the defendant, under the general issue, may give in evidence that the patentee was not the original inventor.*

In the case of Evans *vs.* Eaton, (1 Peters' C. C. R.) the counsel for the plaintiff insisted that, upon the equity of the 10th section of the law of February, 1793, the defence set up, *that the patentee was not the original inventor*, ought not to be allowed. This section provides that, upon oath or affirmation being made before the Judge of the district court where the patentee, &c. resides, within three years of the time of issuing a patent, that it was obtained surreptitiously, or upon false suggestion, the district Judge may grant a rule that the patentee, &c. show cause why process should not issue against him to repeal the patent. Upon this plea, Judge Washington said, "The law has declared that, in actions of this kind, the defendant may plead the general issue, and give in evidence that the plaintiff was not the original inventor of the machine for which the patent was granted. The legislature has not thought proper to limit this defence in any manner; and shall this court do it? But what seems to be conclusive on this point is, that the argument would tend to defeat altogether the provisions of the 6th section, which authorize this defence to be made; for, if it could not be set up after three years from the date of the patent, it would be in the power of a patentee to avoid it altogether, by forbearing to bring suits until after the expiration of that period."

A writ of error in the above case was taken out to the Supreme Court. (3 Wheaton, 454.) The cause was remanded to the circuit court for a new trial; but it does not appear that the correctness of the foregoing opinion was in any way impeached.

ON ARBITRATION IN THE CASE OF INTERFERING APPLICATIONS.

The 9th section of the act of Congress of 1793 provides that, "in the case of interfering applications, the same shall be submitted to the arbitration of three persons," &c. and that their award "shall be *final as far as respects the granting of the patent*, and if either of the applicants shall refuse or fail to choose an arbitrator, the patent shall issue to the opposite party."

36. *If a patent has been obtained by the plaintiff upon the defendant's refusal to submit to an arbitration, and the defendant subsequently obtain a patent for the same invention, this is not conclusive proof that the latter was obtained surreptitiously, or upon false suggestion.*

In the case of Stearns *vs.* Barrett, (1 Mason 174,) Judge Story, in reference to the above opinion, contained in the charge of the district court, says, "In my judgment, there was no error in this opinion of the court. If an arbitration had actually been perfected between the parties under the 9th section, the award or decision of the arbitrators would have been final between the parties only so far as respected the granting of the patent. It would not have concluded the parties from showing in the present suit that it was obtained upon false suggestions; it would not have concluded

them, in an action for an infringement of the patent, from asserting any defence allowed by the 6th section of the patent act. The sole object of such an award is to ascertain who is *prima facie* entitled to the patent; but, when once obtained, the patent is liable to be repealed or destroyed by precisely the same powers as if it had issued without objection. If the award itself would not have been conclusive *a fortiori*, a refusal to join in an arbitration under the statute cannot be so."

OF THE COURT IN WHICH AN ACTION MUST BE BROUGHT.

37. *A State court has no jurisdiction in an action brought for the infringement of a patent right; such a suit must be instituted in the circuit court of the United States.*

This was decided in the case of Parsons *vs.* Barnard, (7 Johnson's N. Y. Rep. 144.)

It was an action on the case for a breach of the plaintiff's patent. The defendant pleaded to the jurisdiction, and the plaintiff demurred. The court gave the following opinion: "As the judicial power of the United States extends to all cases in law and equity *arising under the laws of the United States*, and as the act of Congress on the subject of patent rights has declared that the suit for the infringement of them shall be brought in the circuit court of the United States, and gives the court power in such cases to declare the patent void, the State courts have, of course, *no* jurisdiction in the case. The judgment must be rendered for the defendant."

In the case of Livingston *et al. vs.* Van Ingen *et al.*, (4 Hall's Am. Law Journal, 63,) it was held by Judge Livingston, that, "There being no act of Congress conferring on the circuit court of the United States a right to take cognizance, as a court of equity, of a case under the patent law, between citizens of the same State, that court cannot take cognizance of such a cause." This decision was made in the year 1811. But "An act to extend the jurisdiction of the circuit court of the United States to cases arising under the law relating to patents," was passed on the 15th of February, 1819. That act declares "that the circuit courts of the United States shall have original cognizance, as well in equity as at law, of all actions, suits, controversies, and cases, arising under the law of the United States, granting," &c.

ON THE GRANTING OF AN INJUNCTION.

In the case of Sullivan *vs.* Redfield and Seymour, (1 Paine, 442,) an application was made for an injunction against the violation of a patent right. In delivering his opinion, Judge Thompson decided, that—

38. *To obtain the injunction, the case should be such as to leave little, if any doubt in the mind of the court, as to the validity of the patent; especially if it rests upon the complainant's own showing, without any opposing testimony.*

39. *The established rules which govern courts of equity on such applications, are, that, where there has been an exclusive possession of some duration under the patent, an injunction will be granted without putting the party previously to establish the validity of his patent at law. But where the patent is recent, and it is attempted to be shown that the specification is bad, or otherwise that the patent ought not to have been granted, the court will not take the decision upon itself, but will send the party to establish his patent at law.*

A LIST OF ALL THE

# PATENTS GRANTED BY THE UNITED STATES;

WITH THE

## NAMES OF THE PATENTEES,

ALPHABETICALLY ARRANGED.

# LIST OF PATENTS GRANTED BY THE UNITED STATES.

## AGRICULTURE.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Agriculture, improvement | Peter Pardee | Trenton, N. Y. | Feb. 6, 1829 |
| Apples, machine for paring | Moses Coates | Pennsylvania | Feb. 14, 1803 |
| Do do do coring, and quartering | Willard Badger | Boston, Mass. | Feb. 16, 1809 |
| Do do do | Stephen Cruttenden | Guilford, Conn. | Aug. 25, 1809 |
| Do do coring and quartering | Cyrus Gates | Rutland, Ver. | Dec. 15, 1810 |
| Do do cutting; also, potatoes, turnips, &c. | William Kling | New Holland, Pa. | April 28, 1818 |
| Do do do | A. Glendenning | Loudoun county, Va. | Sept. 9, 1823 |
| Do do grinding | Joel Farnham | Tioga, N. Y. | June 28, 1825 |
| Do do do | Bela Churchell | Buckfield, Me. | Dec. 9, 1825 |
| Do do grating, corn, &c. | Camm Moore | Guilford co., N. C. | Dec. 30, 1826 |
| Do mill | H. E. Paine and S. H. Russell | Le Roy, Ohio | March 5, 1827 |
| Do machine for grinding | Constant H. Weeks | Paris, N. Y. | April 9, 1827 |
| Do do grating | Uri Emmons | New York | Feb. 13, 1828 |
| Do do grinding | David D. Demarest | New Milford, N. Y. | Jan. 14, 1829 |
| Do fruit, and roots, preserving | Amos Hart | Wharton township, Pa. | Aug. 10, 1829 |
| Do paring machine | R. and A. Mosher | Galway, N. Y. | Dec. 31, 1829 |
| Bee hive | John Sweet | Bethlehem, Mass. | April 11, 1810 |
| Do | Timothy Stanley | Farmington, Conn. | Dec. 9, 1811 |
| Do | Do | Do. | Jan. 6, 1812 |
| Do | Edward Blake | Hartford, Me. | Nov. 16, 1820 |
| Do | Simon C. Williams | Shenandoah co., Va. | May 14, 1823 |

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|---|---|---|---|
| Do | William J. Stillwell | Root, N. Y. | Mar. 18, 1824 |
| Do | Cuthbert Wiggins | Fayette co., Pa. | Feb. 27, 1827 |
| Bees, management of | Francis Kelsey | Lockport, N. Y. | Aug. 26, 1828 |
| Bleaching unrotted flax and hemp | Wm. Cumberland | New York | Aug. 27, 1822 |
| Buds, delaying from blossoming | Robert Moore | Rowan co., N. C. | Mar. 16, 1822 |
| Cabbage, machine for cutting | F. Berkeymeger and J. Dangler | Greenwich, Pa. | Nov. 14, 1826 |
| Cattle, machine for watering | Moses Smith | Massachusetts | Mar. 16, 1804 |
| Do do | Adolphus Allen | Troy, Pa. | July 10, 1824 |
| Cheese vat, for forming pineapple cheese | Lewis M. Norton | Goshen, Ct. | April 17, 1810 |
| Do nets | Do. | Litchfield, Ct. | June 4, 1827 |
| Do curd, machine for cutting | Anson Morris | Sackett's Harbor, N.Y. | May 2, 1829 |
| Cider mill and bark mill | Isaac Quintard | Stanfield, Ct. | April 5, 1806 |
| Do | Timothy Showerman | Covington, N. Y. | July 20, 1825 |
| Do and press, horse power | Uri Emmons | New York | June 31, 1829 |
| Do do | Daniel Reed | Easton, Mass. | March 8, 1829 |
| Do | Moses B. Bliss | Pittston, Maine | April 21, 1829 |
| Do do | Daniel Pride | Potsdam, N. Y. | June 11, 1829 |
| Do do | Ozias Pettibone | Hartford, Ct. | March 1, 1815 |
| Clover seed, machine for cleaning | Jona. Roberts, jun. | Pennsylvania | Feb. 13, 1796 |
| Do do do | Asher Spicer | Connecticut | April 22, 1802 |
| Do do do | Martin Miller | Pennsylvania | July 19, 1802 |
| Do do do | John Cottle | Do | Mar. 21, 1803 |
| Do do do | Timothy Kirk | York, Pa | July 28, 1803 |
| Do and wheat cleaner | David Buckman | Pennsylvania | Dec. 21, 1803 |
| Do machine | Jacob Warrell | Do | Feb. 27, 1804 |
| Do do for shelling | Michael Withers | Lancaster, Pa. | April 30, 1804 |
| Do do | Michael Zorger | York, Pa. | May 10, 1805 |
| Do do | William Sampson and Cyrus Curtis | New Haven, Vt. | Jan. 6, 1809 |
| Do do | Samuel Condon | New Hartford, Ct. | March 3, 1809 |

LIST OF PATENTS—AGRICULTURE—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Clover seed, machine for rubbing out | Nehemiah Price | Frederick co., Md. | March 2, 1811 |
| Do do | Henry Spickard | Fincastle, Va. | Aug. 16, 1814 |
| Do do | Samuel Arnold | Botetourt, Va. | Jan. 25, 1815 |
| Do do for gathering | John Smith | Fredericksburg, Va. | April 28, 1815 |
| Do do | John Bottom | Warren, N. Y. | Jan. 28, 1822 |
| Do do | William Loomis | Ashford, Ct. | April 27, 1822 |
| Do mill | John Bolton | Warren, N. Y. | Jan. 9, 1823 |
| Do machine | Thomas D. Burrall | Geneva, N. Y. | June 5, 1823 |
| Do do | Isaac H. Haskins | Columbia, N. Y. | May 6, 1824 |
| Do do | Benjamin Sutton | Romulus, N. Y. | Feb. 10, 1825 |
| Coffee hulling machine | Roswell Abbey | New York | Jan. 1, 1825 |
| Corn covering machine | Thomas Williams | Pittsylvania, Va. | Dec. 19, 1822 |
| Corn crusher | Samuel K. Ganntt | Greenville, Ten. | May 25, 1827 |
| Corn husking machine | Howlet Bushnell | Norwich, Ct. | Nov. 14, 1826 |
| Corn sheller | Paul Pilsbury | Massachusetts | Oct. 25, 1803 |
| Do and grinder | Levi Stevens | New York | May 8, 1804 |
| Do | John Heavin | Fredericktown, Md. | May 8, 1810 |
| Do and wheat thrasher | Zina Phinney | Cairo, N. Y. | Feb. 16, 1815 |
| Do | J. Fuller | Rockland, Va. | Mar. 19, 1816 |
| Do improvement on Phinney's | Hugh Gallagher | Pittsburg, Pa. | Oct. 29, 1818 |
| Do | Walter Janes | Ashford, Ct. | May 6, 1819 |
| Do improvement on Janes's | Rufus Guthrie | Brimfield, Ms. | Jan. 18, 1820 |
| Do | H. Roosevelt and E. J. Roosevelt | New York | Jan. 26, 1821 |
| Do | Noah Lindsay | Catskill, N. Y. | Mar. 28, 1821 |

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|---|---|---|---|
| Do | Samuel Spooner | Petersham, Mass. | Feb. 27, 1823 |
| Do | Wm. E. Sheffield | New York | April 15, 1823 |
| Do | Lemuel Peck | Brookfield, Ct. | April 9, 1824 |
| Do | John Moon | Falls Township, Pa. | April 20, 1824 |
| Do | Chauncey Bulkley | Manchester, Vt. | May 25, 1824 |
| Do | Hiram Hubbard | Palmyra, N. Y. | June 17, 1824 |
| Do | Lewis Whitney | New York | Nov. 13, 1824 |
| Do | Benjamin Crooker | Do | Dec. 2, 1824 |
| Do | Alverson Little | Columbia, Ct. | Dec. 23, 1824 |
| Do riddling and fanning machine | Robert Humphreys | Harpersfield, N. Y. | Dec. 24, 1824 |
| Do | Pierson Reading | Trenton, N. J. | Dec. 27, 1824 |
| Do | Francis Price | New York | May 4, 1825 |
| Do | William C. Hawley | Do | June 22, 1825 |
| Do | John Moon | Morrisville, Pa. | June 27, 1825 |
| Do | Samuel Lane | Hallowell, Me. | Sept. 9, 1825 |
| Do | Amon Bailey | Poultney, Vt. | Nov. 1, 1825 |
| Do | Christopher Hoxie | Hudson, N. Y. | Dec. 8, 1825 |
| Do improvement on Pilsbury's | Jeremiah Dodson | Guilford, N. C. | June 15, 1826 |
| Do | Elijah Russell | Greensburg, N. C. | Oct. 24, 1826 |
| Do | Thomas Newman | Guilford, N. C. | Feb. 7, 1827 |
| Do longitudinal | George E. Waring | Poundridge, N. Y. | Mar. 16, 1827 |
| Do | John Brown | Providence, R. I. | Mar. 18, 1828 |
| Do | William Hoyt | Vernon, Ind. | April 29, 1828 |
| Do | Phil. Grosjean | Louisville, Ky. | July 29, 1828 |
| Do | Thomas J. Dean | Virgin, N. Y. | Dec. 8, 1828 |
| Do | John S. Gardiner | Canandaigua, N. Y. | June 11, 1829 |
| Corn stalks, machine for cutting | A. Glendenning | Butler co., Pa. | Sept. 25, 1823 |
| Corn weeding machine | Charles Hill | Essex co., Va. | July 7, 1814 |
| Cotton cleaning machine | G. F. Saltonstall | North Carolina | Sept. 2, 1801 |
| Do do | Do. | Do | May 14, 1803 |
| Do cleaner | James Simonds and Jos. McJames | Charleston, S. C. | May 17, 1804 |

## LIST OF PATENTS—AGRICULTURE—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Cotton, hopper for cleaning | G. F. Saltonstall | Fayetteville, N.C. | Dec. 31, 1817 |
| Cotton cleaner | George T. Sadler | Lawrence co., Ala. | Mar. 10, 1823 |
| Do | Jesse Reed | Marshfield, Mass. | Feb. 3, 1826 |
| Do Sea Island | Do | Do | Aug. 10, 1827 |
| Do | Amos Gilliam | Reedy Fork, S. C. | Oct. 10, 1829 |
| Cotton gin | Eli Whitney | Massachusetts | Mar. 14, 1794 |
| Do | Hodgen Holmes | Georgia | May 12, 1796 |
| Do | Robert Watkins | Do | Dec. 23, 1796 |
| Do | John Murray | Do | Dec. 23, 1796 |
| Do | Eben. Whiting | Massachusetts | Jan. 22, 1801 |
| Do | Wm. Bell and Sam'l D. Montmollen | Georgia | April 7, 1802 |
| Do | Wm. Bell and John S. D. Montmollen | Georgia | March 7, 1803 |
| Do | William Bell | Pennsylvania | Nov. 24, 1803 |
| Do | John McBride | Nashville, Ten. | Aug. 8, 1805 |
| Do | Obed Crawford | - - | June 22, 1807 |
| Do | Rbt. Hancock, sen. & Ed. W. Carr | Philadelphia, Pa. | Feb. 6, 1811 |
| Do | Isaiah Jennings | New York | Dec. 27, 1815 |
| Do | Englehart Cruse | Charleston, S. C. | Nov. 18, 1816 |
| Do | Isaiah Jennings | New York | Jan. 17, 1817 |
| Do foot | William Gould | McIntosh co., Ga. | Feb. 28, 1821 |
| Do | Samuel Pennoyer | Cross River, N.Y. | July 24, 1822 |
| Do saw and grates for | Eleazer Carver, jun. | Bridgewater, Mass. | June 12, 1823 |

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| Do | Eleazer Carver, jun. | Bridgewater, Mass. | June 13, 1823 |
| Do | Isaac B. Barnes | Beaufort, S. C. | Nov. 6, 1826 |
| Do propelling | Peter Knox | Augusta, Ga. | Dec. 7, 1826 |
| Do feeder | Joseph Eubank, jun. | Glasgow, Ken. | July 29, 1828 |
| Do | David Phillips | Jefferson co., Miss. | April 3, 1829 |
| Do | S. T. Conn | New York | June 11, 1829 |
| Cotton plant, management of the | Samuel W. Pomeroy | Brighton, Mass. | May 6, 1824 |
| Cotton scraper | Horatio Starke | Wilkinson co., Miss. | Feb. 3, 1824 |
| Cotton seed, preparing for food | Daniel Gillet | Springfield, Mass. | Sept. 15, 1819 |
| Cotton, separating seed | Joseph Eve | Pennsylvania | Dec. 6, 1803 |
| Do do | Francis Follet | Petersburg, Va. | Jan. 21, 1829 |
| Do do | Do | Do | Dec. 15, 1829 |
| Do do | Jabez Smith | Do | Dec. 28, 1829 |
| Cradle, for grain | Isaac Babcock | Rensselaerville, N.Y. | Mar. 24, 1823 |
| Cultivator, for corn and beans | Eliakim Spooner | Vermont | Jan. 25, 1799 |
| Do | James Hall | | Nov. 19, 1814 |
| Do American | Frederick Miner | New London, Ct. | Aug. 21, 1819 |
| Do | Stephen Hubbard and J. Graves | Wilmington, Vt. | June 21, 1823 |
| Do tooth for | William Beach | Philadelphia, Pa. | Nov. 8, 1825 |
| Do do and harrows | Waldren Beach | Do | April 13, 1826 |
| Do | Richard Herbert | Williamson co., Ten. | Aug. 19, 1828 |
| Do tooth | Isaac Cobb | Westminster, Vt. | Dec. 7, 1829 |
| Cutting box | William Willis | South Carolina | Aug. 24, 1822 |
| Dairy cooler | David Whitmer | Paradise, Pa. | Dec. 7, 1826 |
| Fan, wheat | Benjamin Tyler | New Hampshire | April 15, 1796 |
| Do do | Stephen Stillwell | New York | July 9, 1802 |
| Do house | Edward Marquam | | Mar. 28, 1803 |
| Do wheat, thrashing, &c. | Samuel Houston | Virginia | May 3, 1804 |
| Do do | William Adams | Do | Mar. 1, 1816 |
| Do do | Samuel Weaver | Frederick co., Md. | Mar. 11, 1816 |

LIST OF PATENTS—AGRICULTURE—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Fan and screen | John Peyton | Orange co., Va. | Nov. 7, 1825 |
| Fan, wheat | George Hoffman | Fredericktown, Md. | Aug. 21, 1829 |
| Fanning mill | Oliver Barret, jun. | Sandy Hill, N. Y. | Mar. 23, 1808 |
| Do | Samuel Dodge | Cleveland, Ohio | Feb. 9, 1808 |
| Do | Benjamin Atwell | Burlington, N. Y. | Sept. 19, 1808 |
| Do | Samuel Snedeker | Johnstown, N. Y. | April 27, 1810 |
| Do | Thomas W. Jessup | Fredericktown, Md. | June 18, 1811 |
| Do | Thomas S. Barnum | Sharon, Ct. | Jan. 15, 1812 |
| Do | Samuel Fitch | Homer, N. Y. | Oct. 29, 1814 |
| Do | Joel Soper | Windsor, Ct. | Dec. 3, 1814 |
| Do | Benja. D. Beecher | New Haven, Ct. | May 30, 1816 |
| Do | Daniel Donoghoe | New York | April 16, 1821 |
| Do | David Neefus | Flatlands, N. Y. | Sept. 22, 1823 |
| Do | Lemuel Peck | Brookfield, Ct. | Aug. 13, 1824 |
| Do | Enoch Walker | Springfield, Pa. | Mar. 28, 1825 |
| Do | Ovid Pinney and Jas. Olmstead | Caledonia, N. Y. | Nov. 7, 1826 |
| Do | Enoch Walker | Springfield Four Corners, Pa. | Sept. 20. 1827 |
| Do | Justus Frary | Southampton, Mass. | Feb. 17, 1829 |
| Flax, breaking and dressing | Samuel Mulliken | Philadelphia, Pa. | Mar. 11, 1791 |
| Do do machine | John Cannon | Delaware | Jan. 17, 1801 |
| Do dressing | Elisha Mack | - | Mar. 21, 1806 |
| Do do | Jona. Barlow | Granville, Mass. | Aug. 23, 1809 |
| Do do | Oliver Wilde | Canaan, N. Y. | April 16, 1810 |

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|---|---|---|---|
| Do do | John Haws | Hudson, N. Y. | June 19, 1812 |
| Do breaking | Samuel Davison | Romulus, N. Y. | May 17, 1822 |
| Do do | Pierson Reading | Trenton, N. J. | Jan. 3, 1825 |
| Do dresser | Francis Burdick | Kortright, N. Y. | Feb. 28, 1825 |
| Do do | William Wheeler | Warren, N. Y. | Mar. 26, 1825 |
| Do breaking and dressing, thrashing and grinding grain | Joseph Briggs | Schoharrie, N. Y. | Oct. 5, 1825 |
| Do dressing | Joseph Hines & Wm. Bain | New York | Aug. 12, 1826 |
| Do do | Henry Schoonhoven | Pultney, N. Y. | Dec. 11, 1827 |
| Do swingling | Samuel Achey | Heidelburg townsh. Pa. | Feb. 18, 1828 |
| Flax and hemp machine | Samuel Mulliken | Pennsylvania | Jan. 15, 1795 |
| Do do | Benjamin Tyler | New Hampshire | Feb. 26, 1799 |
| Do do | Hez. Betts | Connecticut | May 3, 1802 |
| Do do | Owen Roberts | Pennsylvania | April 12, 1804 |
| Do do | Richard Button | Cazenovia, N. Y. | Feb. 11, 1807 |
| Do do | Thomas Cohoon | Do | April 13, 1808 |
| Do do | Rd. S. Chappel | Pawlett, N. Y. | Jan. 18, 1809 |
| Do do | Eli F. Hill | Fabius, N. Y. | Feb. 11, 1809 |
| Do do | Nath'l P. Robinson | Fleming co., Ken. | Aug. 31, 1810 |
| Do do | Edward Rumsey | Christian co., Ken. | April 26, 1811 |
| Do do | John C. Johnson | Fayette co., Ken. | May 16, 1811 |
| Do do | Robert Miller | Lexington, Ken. | July 13, 1811 |
| Do do | J. A. Dana | Cazenovia, N. Y. | July 23, 1811 |
| Do do | William Harper | Richmond, Va. | Oct. 15, 1811 |
| Do do | Archibald Tanner | Trumbull co., Ohio | Oct. 24, 1811 |
| Do do | Ira Millard | Kent, Ct. | May 6, 1813 |
| Do do | William Vanduzer | Warwick, N. Y. | June 30, 1813 |
| Do do | Francis Hall | Tennessee | Oct. 7, 1813 |
| Do do | G. H. Rickets and John Kinney, jr. | Mount Pleasant, N. J. | July 12, 1814 |
| Do do | Do do | Morristown, N. J. | Oct. 24, 1814 |

LIST OF PATENTS—AGRICULTURE—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Flax and hemp, wheel for dressing - - - | Caleb & W. A. Benton | Amenia, N, Y. - | May 22, 1816 |
| Do machine - - - - | Thomas Pullen - | Lexington, Ken. - | June 20, 1816 |
| Do preparing without water rotting - | Wm. Pickingbottom | New York - | July 12, 1816 |
| Do - - - - - - | David Melville - | Newport, R. I. - | Nov. 18, 1818 |
| Do machine - - - - | Henry Burden - | Albany, N. Y. - | June 15, 1822 |
| Do do - - - - | Wm. Cumberland - | New York - | July 9, 1822 |
| Do do - - - - | James Macdonald - | Do - - | Aug. 31, 1822 |
| Do do - - - - | Namon Goodsell - | Paris, N. Y. - | Sept. 19, 1822 |
| Do do for unrotted - - - | Wm. Cumberland - | New York - | Nov. 29, 1822 |
| Do do - - - - | James Macdonald - | Do - - | Jan. 18, 1823 |
| Do do - - - - | Joseph Hines & Wm. Bain - - | Columbus, Ohio - | Feb. 3, 1823 |
| Do do - - - - | Frederick Cox - | Somerville, N. J. - | Dec. 4, 1823 |
| Do do - - - - | Benjamin Lewis - | Ligonia, Me. - | Jan. 28, 1824 |
| Do do dressing - - - | Platt Wakelee - | Augusta, N. Y. - | April 16, 1824 |
| Do do - - - - | Erastus Kellogg - | Palmyra, N. Y. - | May 11, 1824 |
| Do do - - - - | Wm. C. Davison - | Pittsford, N. Y. - | June 22, 1824 |
| Do do breaking and shelling corn - | Reynolds Gillman - | New York - | Nov. 5, 1824 |
| Do do - - - - | Franklin Kellsey - | Middletown, Ct. - | Nov. 26, 1824 |
| Do do - - - - | T. S. & A. Barnum - | New York - | Nov. 27, 1824 |
| Do do rotting by steam - - | Achilles Chinn - | Harrison co., Ken. - | Dec. 28, 1825 |
| Do do - - - - | John C. Wenzell - | Louisville, Ken. - | Jan. 17, 1828 |
| Do do - - - - | Evans Christian - | Philadelphia, N. Y. - | Feb. 8, 1828 |
| Do do - - - - | Amos Salisbury - | Troy, N. Y. - | April 15, 1829 |

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| Do do | Amos Salisbury and John C. Langdon | Troy, N. Y. | April 18, 1829 |
| Do do | J. Y. Watson, J. Blossom, & A. Burnett | Salem, N. Y. | April 21, 1829 |
| Do do | Thomas Cahoon | Troy, N. Y. | April 25, 1829 |
| Do do | Reuben Medley | Bloomfield, Ken. | June 11, 1829 |
| Do do | H. L. Barnum and M. Stephenson | Cambridge, N. Y. | July 8, 1829 |
| Do do | Amos Salisbury and John C. Langdon | Troy, N. Y. | July 29, 1829 |
| Do do | Lafayette Tibbitts | New Glasgow, Va. | August 1, 1829 |
| Do do | J. L. F. Roumage | New York | August 6, 1829 |
| Flax seed, machine for cleaning | Paul Gaultry | New York | April 24, 1804 |
| Do do do | Asa Hook | Searmont, Me. | Sept. 9, 1823 |
| Fork, four-tined | Granville Martin | Waterbury, Ct. | June 13, 1823 |
| Do hay and dung | Christian Lawrence | Chatham, N. Y. | July 26, 1823 |
| Do four-tined | Calvin Perkins | Waterbury, Ct. | Jan. 27, 1829 |
| Fruits, &c., drying | Stephen Strong | Wilkes township | Sept. 2, 1811 |
| Fly, Hessian, or weavel in wheat, mode of destroying | William Armistead | Pr. William co., Va. | Nov. 13, 1810 |
| Furrowing machine and corn dropper | M. & J. Nichols | Otsego, N. Y. | Oct. 12, 1809 |
| Garden, geographical | George W. Cherry | Derby, Ct. | May 27, 1825 |
| Grain, cleaning and destroying insects | Joel Morgan | Baltimore, Md. | Feb. 28, 1810 |
| Do do seeds | Wm. H. Peabody | Woodbury, Ct. | June 8, 1810 |
| Do do | Israel Honeywell | Hillsdale, N. Y. | April 27, 1816 |
| Do do | A. Fettrow | York, Pa. | May 28, 1818 |
| Do do | Holand Child | Canton, Me. | Jan. 11, 1823 |
| Do do scouring | John Litzenberger | Philadelphia, Pa. | Nov. 24, 1823 |
| Do do do | Lot Forrester | Ridgefield, Ct. | Feb. 13, 1824 |
| Do do | John Tyler | Claremont, N. H. | May 18, 1827 |
| Grain, measuring | Peter H. Schenck | New York | Feb. 15, 1810 |
| Grass and grain, machine for cutting | Richard French and John T. Hawkins | New Jersey | May 17, 1803 |

LIST OF PATENTS—AGRICULTURE—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | RESIDENCE. |
|---|---|---|---|
| Grass and grain, machine for cutting - - - | John Comfort - | Bucks co., Pa. - | Feb. 26, 1811 |
| Do do mowing - - - | Peter Baker - | Long Island, N. Y. - | Feb. 19, 1814 |
| Do do do - - - | Jer. Baily - | Chester co., Pa. - | Feb. 13, 1822 |
| Do do do - - - | Ezra Cope and T. Hoopes, jun. - | Do - - | May 18, 1825 |
| Do do do - - - | Peter Gaillard - | Lancaster, Pa. - | Dec. 4, 1812 |
| Gum, extracting from unrotted flax - - - | Sands Olcott - | Harsimus, N. J. - | Dec. 3, 1828 |
| Hackling machine - - - - - | James Patterson - | Southampton, N. Y. - | Dec. 7, 1805 |
| Harrow teeth - - - - - - | Wm. McConaughey - | New Garden, Pa. - | Dec. 8, 1823 |
| self-sharpening - - - - | H. Hopkins and J. Pratt - - | Pompey, N. Y. - | Nov. 9, 1824 |
| cleave - - - - - | Lemuel Tam - | Sussex co., Del. - | July 11, 1826 |
| teeth - - - - - | Wm. McConaughey - | New Garden, Pa. - | Feb. 16, 1827 |
| Hay, machine for binding and pressing - - | David C. Simmons & Condy Raguet, admr. of James Simmons - | Philadelphia, Pa. - | Nov. 7, 1809 |
| Hay and cattle, machine for weighing - - - | Thomas Armat - | Do - - | May 10, 1811 |
| Hay, machine for pressing - - - - | R'd V. W. Thorn - | New York - - | April 29, 1813 |
| Hay, do - - - - - | Moses B. Bliss - | Pittstown, Me. - | Jan. 26, 1828 |
| Hemp break - - - - - | William Mason - | Washington co., Ohio | Dec. 28, 1809 |
| Do do - - - - - | J. S. Van de Graaff - | Scott, Ken. - | May 12, 1828 |
| Do preparation - - - - - | Abm. K. Smedes - | Lexington, Ken. - | Oct. 11, 1828 |
| Hoes - - - - - - | Ephraim Kimball - | Fitchburg, Mass. - | April 3, 1819 |
| Do - - - - - - | Pardon H. Merrill - | Hillsdale, N. H. - | April 6, 1820 |
| Do - - - - - - | Joseph Watson - | Canaan, Ct. - | July 26, 1823 |

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|---|---|---|---|
| Hoes | Paul Whitin | Northbridge, Mass. | Feb. 22, 1825 |
| Do cast steel | Chauncey Bulkley | Colchester, Ct. | Jan. 10, 1827 |
| Do horse iron for ploughing and weeding grain | William Carmichael | Sand Lake, N. Y. | July 28, 1827 |
| Do harrow and plough | Jona. Cheatham | Providence Inn, Va. | July 31, 1827 |
| Do pronged | Joseph Wilson | Marlborough, N. H. | Sept. 20, 1827 |
| Do weeding and others | James A. Black | Columbia, S. C. | Oct. 13, 1828 |
| Do do | Gideon Freeborn | New York | July 7, 1829 |
| Hoe harrow | Aquila Newbern | Bristol, Pa. | June 1, 1824 |
| Hominy mill | Nathan Read | Belfast, Me. | May 8, 1820 |
| Do do | Robert Campbell | Martinsburg, Va. | April 9, 1827 |
| Horses' ears, mode of setting | Seth Janes | - - | Dec. 31, 1804 |
| Do and cattle, mode of breaking | David Cooley, jun. | Orange co., N. Y. | June 23, 1810 |
| Do training and breaking | Townsend Cock | New York | March 1, 1811 |
| Do mode of improving the shape, &c. | Aaron Carman | Hyde Park, N. Y. | Nov. 27, 1828 |
| Hulling machine, cylindrical | Sebastian Houpt | Philadelphia, Pa. | Nov. 16, 1812 |
| Do cotton seed | John Lineback | Salem, N. C. | Mar. 31, 1814 |
| Do grain | Benjamin Maltby and Maltby Fowler | New Haven, Con. | Feb. 28, 1818 |
| Do grain and rice | Benjamin Maltby and Maltby Fowler | New Haven, Con. | Feb. 26, 1819 |
| Do coffee | Nathan Read | Belfast, Me. | Sept. 10, 1822 |
| Do grass seed | Thatcher Blake | Paris, Me. | July 12, 1822 |
| Do grain | Nathaniel Barret | Paris, N. Y. | Aug. 21, 1823 |
| Do do | William J. Hart | Talmadge, Ohio | May 21, 1824 |
| Malt, washing | William Ellis | New Jersey | June 18, 1799 |
| Mould board | Robert Smith | Pennsylvania | May 19, 1800 |
| Manure or compost for improving soils | Anthony B. Martin | Baltimore, Md. | June 2, 1819 |
| Manuring wagon | James Bowman | Coosawatchie, S. C. | Aug. 12, 1829 |
| Oil, extracting | Charles Whiting | Massachusetts | March 2, 1799 |
| Do from palma christi | John G. Gebhard | New York | Feb. 4, 1800 |
| Do flax seed | David Dodge | Hamilton, Mass. | May 14, 1827 |

LIST OF PATENTS—AGRICULTURE—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Onion seed, machine for separating from grain - | Lazarus Ruggles and Daniel Tomlinson - | Brookfield, Ct. - | Mar. 16, 1810 |
| Plant, applicable to various uses - - - | Charles Whitlaw - | New York - | Jan. 11, 1812 |
| Planting machine for corn, &c. - - - | Eliakim Spooner - | Vermont - | Jan. 25, 1799 |
| Do do do - - - - | John Beecher - | Lycoming co., Pa. - | Mar. 18, 1809 |
| Do do do - - - - | John Blocher - | Lancaster, Pa. - | April 12, 1814 |
| Do do potatoes - - - - | George Harper - | Jenkinstown, Pa. - | Mar. 23, 1818 |
| Do do corn - - - - | Andrew Cocke - | Flushing, N. Y. - | Mar. 20, 1821 |
| Do do cotton - - - - | Christopher Ford - | Painesville, Va. - | May 26, 1825 |
| Do do do - - - - | Francis H. Smith - | Richmond, Va. - | Feb. 15, 1826 |
| Do and working corn - - - - | William Ross - | Middle Baxton, Pa. - | June 24, 1826 |
| Do corn, cotton, &c. - - - - | John Lobdell - | Warren co., Miss. - | Dec. 26, 1826 |
| Do grain - - - - - | Orson Starr - | Richmond, N. Y. - | Aug. 22, 1828 |
| Do seed - - - - - | A. H. & L. Robbins | Denmark, N. Y. - | Aug. 28, 1828 |
| Do corn - - - - - | Matthew Lenox, Wm. Croft, and H. Pitner | Steubenville, Ohio - | Jan. 26, 1829 |
| Do machine for seeds - - - - | Zebina Lane - | Harrisburg, N. Y. - | Sept. 21, 1829 |
| Plough - - - - - - | Charles Newbold - | New Jersey - | June 26, 1797 |
| Do - - - - - - | John Deaver - | Baltimore, Md. - | July 12, 1804 |
| Do - - - - - - | David Peacock - | Burlington, N. J. - | April 1, 1807 |
| Do harrow - - - - - | Seth Vinton - | Wilmington, Ct. - | Nov. 18, 1807 |
| Do - - - - - - | Hez. Harris - | Bullitt, Ken. - | Feb. 24, 1808 |
| Do - - - - - - | Rich'd B. Chenoweth | Baltimore, Md. - | Nov. 25, 1808 |
| Do planting - - - - - | Frederick Woodward | New Lisbon, N. Y. - | July 18, 1809 |
| Do draining - - - - - | Stephen Hall - | Boston, Mass. - | July 13, 1810 |

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| Do | varying the motion of the | John Sanford | Sharon, Ct. | Aug. 20, 1811 |
| Do | common | Nicholas Turbutt | Fredericktown, Md. | Sept. 7, 1811 |
| Do | | John Klay | Do | Jan. 11, 1812 |
| Do | | Roswell Tonsley | Cayuga co., N. Y. | Jan. 11, 1812 |
| Do | | John Sietz | Strasburg, Pa. | Feb. 8, 1813 |
| Do | bull | Sylvanus Tonsley | Onondaga co., N. Y. | May 28, 1813 |
| Do | | Matthew Patrick | Scipio, N. Y. | June 2, 1813 |
| Do | | Matthew Murray | Middletown, Md. | Aug. 7, 1813 |
| Do | | Horace Pease | Enfield, Ct. | Aug. 28, 1813 |
| Do | bar share | John & Joshua Butler | Brandywine & Chester co., Pa. | March 1, 1814 |
| Do | | Jethro Wood | Scipio, N. Y. | July 1, 1814 |
| Do | | John Swann | Do | July 5, 1814 |
| Do | | J. Morgan and J. B. Harris | Do | Oct. 11, 1814 |
| Do | bull | Roswell Tonsley and J. Swann | | Nov. 9, 1814 |
| Do | | Henry Schultz | Lancaster, Pa. | Dec. 17, 1814 |
| Do | for dressing corn | Elisha Bean | Massachusetts | March 4, 1816 |
| Do | machine for drawing | Luke Johnson | Leominster, Mass. | August 6, 1816 |
| Do | double | John Cromwell | Roystertown, Md. | Oct. 23, 1816. |
| Do | | David Peacock | New Mills, N. J. | May 29, 1817 |
| Do | angular | John Lupton | Virginia | July 31, 1817 |
| Do | | Samuel Ogle | Graceham, Md. | June 9, 1818 |
| Do | | Perry Miller | Washington co., N.Y. | Oct. 26, 1818 |
| Do | | Gideon Davis | Sandy Spring, Md. | May 26, 1818 |
| Do | share rolled | Joseph Potts | Montgomery co., Pa. | Nov. 7, 1818 |
| Do | | Lemuel Goodrich and John Adams | Hudson, N. Y. | Dec. 3, 1818 |
| Do | | Rich'd N. Harrison | New York | Dec. 19, 1818 |
| Do | | George D. Avery | Wood co., Va. | Dec. 28, 1818 |

## LIST OF PATENTS—AGRICULTURE—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Plough - - - - - - | Stephen M'Cormick - | Fauquier c. h., Va. - | Feb. 3, 1819 |
| Do - - - - - - | Zadock Harris - | Hartford, N. Y. - | Mar. 17, do |
| Do - - - - - - | Abr'm Tice and Isaac Tice - - | Union village, N Y. | Aug. 21, do |
| Do - - - - - - | Jethro Wood - | Poplar Ridge, N. Y. | Sept. 1, do |
| Do - - - - - - | Cornelius Bergen - | Brooklyn, N. Y. - | Nov. 11, do |
| Do - - - - - - | James Swartwout - | Taghkanic, N. Y. - | Nov. 13, do |
| Do - - - - - - | P. H. Marshall and Jac. B. Smith - | Lambertville, N. J. - | March 3, 1820 |
| Do - - - - - - | George Gibbs - | New York - | March 8, do |
| Do - - - - - - | John W. Jenkins - | Hudson, N. Y. - | July 6, do |
| Do - - - - - - | John S. Wright - | Greenwich, N. Y. - | July 28, do |
| Do double shovel - - - - - | John Balthrope - | Loudoun co., Va. - | Sept. 20, do |
| Do - - - - - - | Robert and Edwin A. Stephens - | Hoboken, N. J. - | Sept. 13, do |
| Do - - - - - - | Cha's Wood and Gilbert Brundage - | Blooming Grove, N.Y. | Nov. 9, do |
| Do cast iron - - - - - | John Seaver and John Fay - - | Rockingham, Vt. - | Dec. 14, do |
| Do shifting share - - - - - | John Wood - - | Castleton, N. Y. - | Feb. 1, 1821 |
| Do cast iron - - - - - | A. L. & E. A. Stephens | Hoboken, N. J. - | April 23, do |
| Do shares, hardening edges - - - | Do - - | Do - - | April 23, do |
| Do cast iron - - - - - | George J. King - | Red Hook, N. Y. - | June 20, do |
| Do do - - - - - | Obed Seely - - | Pottstown, Pa. - | Aug. 27, do |
| Do do - - - - - | William Falconer - | New York - | Sept. 13, do |

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| Do | O. Phelps and G. Moorehouse | Lansing, N. Y. | Nov. 17, | do |
| Do cast iron | David Hitchcock | New York | Dec. 29, | do |
| Do | David Peacock | Northampton, N. J. | Jan. 21, | 1822 |
| Do | William G. Shuart | Orange co., N. Y. | Feb. 5, | do |
| Do cast iron | Josiah Ducher | Durham, N. Y. | Feb. 12, | do |
| Do do | G. W. Hawkins and H. Emery | Windsor co., Vt. | Feb. 16, | do |
| Do | C. G. Gill and James Gill, (B. S.) | Chester, S. C. | Mar. 25, | do |
| Do | John Gibson | Montgomery co. N.Y. | May 2, | do |
| Do drill and cotton thinner | William Willis | Edgefield, S. C. | May 7, | do |
| Do share | Bailey Carpenter | Somerstown, N. Y. | July 1, | do |
| Do | Abijah Lee | West Chester, N.Y. | July 22, | do |
| Do | Joseph Woolley | Troy, N. Y. | Sept. 14, | do |
| Do | Peter J. Clute | Schenectady, N. Y. | Nov. 16, | do |
| Do cast iron | J. J. Schoonmaker and J. Dolson | Ulster, N. Y. / Dutchess, N. Y. | Dec. 7, | do |
| Do | Ryland Rhodes | Albemarle co., Va. | Feb. 25, | 1823 |
| Do for listing and preparing land | John Weaver | Washington, D.C. | May 8, | do |
| Do | George Nixon | New York | June 3, | do |
| Do | David Hitchcock | Do | July 16, | do |
| Do cutter, and points for | D. H. Jones and W. F. Richardson | Palmyra, N. Y. | July 29, | do |
| Do self-sharpening | Waldren Beach | Philadelphia, Pa. | Aug. 26, | do |
| Do | Obed Hackney | Lebanon, Ohio | Aug. 29, | do |
| Do | John Nash | Talmadge, Ohio | Oct. 14, | do |
| Do cast iron, with a double-pointed wing | William C. Pancost | Addison, Vt. | Jan. 29, | 1824 |
| Do improvement on Wood's | Solomon Austin | Sempronius, N. Y. | Feb. 27, | do |
| Do self-sharpening | Waldren Beach | Philadelphia, Pa. | April 9, | do |
| Do cast iron | Thomas Altason | Newton, N. J. | April 16, | do |

## LIST OF PATENTS—AGRICULTURE—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Plough, cast iron, cutter for - - - - | Jonathan Swann - | Cayuga co., N. Y. - | April 24, 1824 |
| Do do - - - - - | Ross Winans - | Vernon, N. Y. - | May 11, do |
| Do do - - - - - | D. Chase and A. & J. Gregg - | Palmyra, N. Y. - | August 4, do |
| Do do or wrought - - - - | Nathaniel Gillet, jr. - | Talmadge township, O. | Sept. 24, do |
| Do - - - - - - | A. Spicer, jr. and J. Tower | Portage townsh, O. Talmadge co., O. | Sept. 25, do |
| Do - - - - - - | James Y. Hunt - | Turnbridge, Vt. - | Dec. 24, do |
| Do - - - - - - | Garland Ellington - | Madison co., Ala. - | Dec. 25, do |
| Do hill side - - - - - | John Rich, jun. - | Troy, N. Y. - | Feb. 10, 1825 |
| Do - - - - - - | Phineas Pettis - | Portage co., Ohio - | Feb. 15, do |
| Do - - - - - - | George D. Avery - | Georgetown, D. C. - | Feb. 15, do |
| Do - - - - - - | Do - - | Do - - | Mar. 25, do |
| Do self-sharpening - - - - | C. and O. Evans - | Philadelphia, Pa. - | April 14, do |
| Do - - - - - - | Stephen W. Whitman | Harpersfield, Ohio - | May 7, do |
| Do Auburn - - - - - | Wm. F. Richardson - | Auburn, N. Y. - | June 28, do |
| Do - - - - - - | Gideon Davis - | Georgetown, D. C. - | Oct. 1, do |
| Do - - - - - - | Stephen McCormick | Fauquier, Va. - | Jan. 28, 1826 |
| Do hill side, double nose, cast iron - - | John Shephard - | Deruyter, N. Y. - | April 12, do |
| Do cast iron - - - - - | Thaddeus Fairbanks - | St. Johnsburg, Vt. - | April 19, do |
| Do - - - - - - | William Cocke - | Luzerne township, Pa. | April 28, do |
| Do - - - - - - | Z. S. Holbridge and H. S. Lawson - | Byrne, N. Y. - | Aug. 9, do |
| Do for planting corn - - - - | Herman Russell - | Litchfield, Me. - | Jan. 16, 1827 |
| Do - - - - - - | Ryland Rhodes - | Charlottesville, Va. - | Feb. 20, do |

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|---|---|---|---|
| Do twin | Noble G. Cryer | Wentworth, N. C. | Mar. 24, do |
| Do cast iron | Robert Sweeny | Warren co., Ohio | May 18, do |
| Do | William Beach | Philadelphia, Pa. | June 27, do |
| Do right and left | George Dofler | Fredericktown, Md. | Aug. 20, do |
| Do bar share | Eli Pugh | Chatham co., N. C. | Dec. 24, do |
| Do for planting corn | Bird Murphy | Union District, S. C. | Dec. 31, do |
| Do | William Wiard | Avon, N. Y. | Jan. 26, 1828 |
| Do | Richard Loveridge | Knox co., Ohio | Mar. 8, do |
| Do | Charles Howard | Hingham, Mass. | Mar. 10, do |
| Do | John Deats | Middletown, Pa. | April 26, do |
| Do | Stephen McCormick | Fauquier, Va. | Oct. 22, do |
| Do hill side | Norman Staples | Penn's Store, Va. | Nov. 1, do |
| Do bar share | John Deakyns | Petersburg, Va. | Nov. 18, do |
| Do prairie, bogging, and ditching | John Gordon | Copeck, N. Y. | Jan. 13, 1829 |
| Do | James Boatwright | Columbia, S. C. | June 11, do |
| Do double | R. Medley, P. Altenderfer, and D. Altenderfer | Cootstown, Pa. | Do do |
| Do cast iron | Jacob Minturn | Urbana, Ohio | Do do |
| Do | John Rhodes | Do | Do do |
| Do iron | John Boynton | South Coventry, Ct. | July 10, do |
| Do | Thomas Brown | New York | Sept. 11, do |
| Do | Timothy Miller | Pittsburg, Pa. | Oct. 23, do |
| Preserving plants from frost | George Morris | Philadelphia, Pa. | July 10, 1792 |
| Do animal and vegetable substances | Joseph Coppinger | Beaufort, S. C. | Nov. 23, 1809 |
| Do animal or vegetable substances | David Cooley | New York | Oct. 24, 1814 |
| Do do substances | Ezra Daggett and T. Kensett | Do | Jan. 19, 1825 |
| Do butter, eggs, &c. | Thomas Edmonson | Pike Creek, Md. | April 26, 1827 |
| Do do | Moses Johnson | New Hampshire | June 30, 1797 |
| Pruning shears | Simeon Jocelyn | New Haven, Ct. | July 13, 1809 |

LIST OF PATENTS—AGRICULTURE—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Rake for collecting apples | Ezias Hart | Berlin, Ct. | Dec. 31, 1812 |
| Do horse | Pierson Reading | Trenton, N. J. | Aug. 1, 1818 |
| Do hay | Thomas C. Hance | Palmyra, N. Y. | June 25, 1821 |
| Do do horse | Moses Pennock | E. Marlborough, Pa. | June 26, 1822 |
| Do do revolving | Henry Hoopes and Ezra Hoopes | Wilmington, Del. | July 26, 1824 |
| Do do do grain and horse | Moses Pennock | Kennett's Square, Pa. | Nov. 23, 1824 |
| Do do do | Do | E. Marlborough, Pa. | Feb. 8, 1825 |
| Do do and grain | M. & S. Pennock | Do | Feb. 17, 1827 |
| Do do horse | Jer. Bailey | Philadelphia, Pa. | Mar. 30, 1827 |
| Do do hand | Ambrose Foster | Auburn, N. Y. | Dec. 19, 1827 |
| Reaping machine | Samuel Adams | - - - | Dec. 28, 1805 |
| Do do | James Ten Eyk | Bridgewater, N. J. | Nov. 2, 1825 |
| Do do | Samuel Lane | Hallowell, Me. | Aug. 8, 1828 |
| Rice, machine for scouring | Robert Grant | South Carolina | Oct. 17, 1796 |
| Do do cleaning | James Dellet | Pennsylvania | Dec. 23, 1796 |
| Do do scouring | Samuel Mulliken | - - - | Feb. 20, 1797 |
| Do do hulling | Christopher Hoxie | New York | Jan. 7, 1803 |
| Do do cleaning | Jonathan Lucas, jun. | Charleston, S. C. | July 12, 1808 |
| Do do do and hulling | John T. Ricketts | Cameron, Va. | Aug. 8, 1808 |
| Do do pounding | Alexander D. Moore | New Hanover, N. C. | Jan. 19, 1809 |
| Do do do husks | Jacob Reed | Charleston, S. C. | June 9, 1809 |
| Do do cleaning | Roswell King | Darien, Ga. | Nov. 21, 1809 |
| Do do beating out | John Beck and Jos. Coppinger | Beck's Ferry, S. C. | Mar. 19, 1810 |

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|---|---|---|---|
| Do do hulling | Sherman Dewey | Hartford, Vt. | Mar. 2, 1811 |
| Do do pounding | Asa Nourse | St. Luke's, S. C. | July 5, 1814 |
| Do do polishing | Jona. Lucas | Charleston, S. C. | Nov. 6, 1819 |
| Do do hulling, and grain | Maltby Fowler | New Haven, Ct. | July 28, 1820 |
| Do do cleaning | Richard French | Morrisville, Pa. | Oct. 13, 1820 |
| Do do do | Lazarus Ruggles | New York | Oct. 12, 1821 |
| Do do do | Elihu Spencer | New Haven, Ct. | Dec. 5, 1821 |
| Do do do | Alexander Shinie | Charleston, S. C. | Dec. 21, 1825 |
| Do do do and hulling | John L. Norton | New York | Mar. 10, 1826 |
| Do do do do | John Campbell | Winnsborough, S. C. | May 31, 1827 |
| Do do do and cleaning coffee | Elijah Wilder | Jersey City, N. J. | Nov. 6, 1827 |
| Do do thrashing | Edmund Warren | New York | Feb. 22, 1828 |
| Do do | John Ravenel | Charleston, S. C. | May 17, 1828 |
| Do do | Asa Nourse | Beaufort, S. C. | July 19, 1828 |
| Do mill, improvement on Keene's | Do | Charleston, S. C. | April 3, 1829 |
| Do and coffee-hulling machine | Zenos Bronson | Jasper co., Ga. | July 7, 1829 |
| Do mill, steam | John L. Norton | Charleston, S. C. | Dec. 16, 1823 |
| Roller, toothed, for preparing ground | Isaiah Jennings | New York | Dec. 27, 1815 |
| Sap bucket | Jeremiah Purdy | Cherburne, N. Y. | Oct. 4, 1817 |
| Scythe, farmers' carriage | Theophilus Eaton | Albany, N. Y. | Dec. 2, 1814 |
| Do circular | Jno. Rhodes & Adam Rhodes | Union township, N. Y. | Dec. 6, 1814 |
| Seed or grain cleaner | William Tullock | Lantern Mill, Va. | Oct. 28, 1806 |
| Do machine for separating by rubbing | G. McA. Brown | Northumberl'd co., Va. | Mar. 19, 1812 |
| Do cleaner, universal | David S. Buck | Hurley, N. Y. | Feb. 10, 1823 |
| Do separating from cotton | Joshua Leavitt and Thaddeus Leavitt | Comfort Lane Suffield, Ct. | Mar. 24, 1825 |
| Sifting grain, flour, &c. | John Nichols | Boston, Mass. | April 29, 1829 |
| Smut machine | Thomas Pierce | Fishkill, N. Y. | Feb. 21, 1804 |
| Do fanning mill | Do | Do | May 24, 1805 |
| Do machine | Daniel Tomlinson | Brookfield, Ct. | May 20, 1812 |

LIST OF PATENTS—AGRICULTURE—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Smut and garlic, machine for cleaning from wheat | Thomas Wilson | Baltimore, Md. | Feb. 8, 1819 |
| Do and wheat machine | Ephraim Tisdale | Warren co., N. Y. | July 31, 1819 |
| Do machine | James Gillaspie | Middletown, Md. | Aug. 23, 1820 |
| Do do | Daniel Pease, jun. | Winfield, N. Y. | Oct. 31, 1820 |
| Do or hulling machine | Stephens Cooke | Marcellus, N. Y. | Aug. 7, 1821 |
| Do machine and scouring machine | Frederick Woodward | Butternuts, N. Y. | Aug. 10, 1821 |
| Do do | Daniel Pease, jun. | Winfield, N. Y. | Feb. 27, 1823 |
| Do do | Phineas Pettis | Talmadge, Ohio | Aug. 12, 1824 |
| Do do | Lemuel V. & Cornelius Masten | Penn Yan, N. Y. | April 25, 1826 |
| Do do | Townsend Carpenter | Elmyra, N. Y. | Dec. 24, 1828 |
| Straw cutter | Moses Coates & Evan Evans | Philadelphia, Pa. | April 30, 1804 |
| Straw, cleaning grain from | William Tunstall | Richmond, Va. | June 30, 1804 |
| Do cutter | John Heavin | Montgomery co., Va. | April 17, 1806 |
| Do do | Josiah Cleaveland | Franklin co., Pa. | July 18, 1807 |
| Do do | Benjamin Conner | Portsmouth, N. H. | July 20, 1807 |
| Do do | Elihu Hotchkiss | Brattleborough, Vt. | Aug. 2, 1808 |
| Do do | Roger Haskell | Burlington, N. Y. | May 25, 1809 |
| Do do | Richard Canfield | Morristown, N. J. | June 26, 1809 |
| Do do | Elihu Hotchkiss | Brattleborough, Vt. | Jan. 18, 1817 |
| Do do | Samuel Whitlock | Vermont | March 3, 1817 |
| Do do | William Ayres and Herman Gay | Windsor, Vt. | Aug. 13, 1817 |

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| Do do | A. Brayton & H. C. Green | Cheshire, Mass. | Dec. 5, 1817 |
| Do do | Alpheus Bigelow | Weston, Mass. | Feb. 13, 1818 |
| Do do | Stephen A. Sherwood | Poughkeepsie, N. Y. | April 11, 1818 |
| Do do | Giles Dayton | Springfield, Mass. | Mar. 18, 1819 |
| Do do | Lemuel Greene | Greene co., Ga. | Dec. 21, 1819 |
| Do do | John S. Eastman | Baltimore, Md. | Jan. 29, 1822 |
| Do do | John Osborn | Blandford, Mass. | Dec. 6, 1823 |
| Do do | Robert I. Steele | Richmond co., N. C. | May 24, 1824 |
| Do cutting machine | Major McDonald | Topsham, Mass. | June 10, 1824 |
| Do do do | Noah Safford | Springfield, Vt. | Aug. 25, 1824 |
| Do do do | Benjamin A. Hall and Chauncey Hall | Middletown, Ct. | Nov. 7, 1825 |
| Do do do | Thomas Benbow | Guilford co., N. C. | Feb. 6, 1827 |
| Do do do corn sheller, &c. | Calvin Chamberlain | Amenia, N. Y. | Mar. 15, 1827 |
| Do do do | Laban Durham and John S. Pleasants | Halifax co., Va. | July 27, 1827 |
| Do do do | Warren Cummings | Livingston co., N.Y. | Feb. 11, 1828 |
| Do do do and thrashing grain | Levi Rice | Lockport, N.Y. | April 1, 1829 |
| Thrashing machine | Samuel Mulliken | Philadelphia, Pa. | Mar. 11, 1791 |
| Do do | William Thompson | Richmond, Va. | August 2, 1791 |
| Do do | William Hodgson | Virginia | April 28, 1794 |
| Do do | James Wardrop | Ampthill, Va. | Nov. 5, 1794 |
| Do do | William Booker | Virginia | Mar. 11, 1797 |
| Do do | Richard R. Elliott | Massachusetts | Nov. 16, 1797 |
| Do do | Thomas C. Martin | - - - | June 2, 1798 |
| Do do | Christopher Hoxie | New York | Aug. 20, 1801 |
| Do do and cleaning wheat | Ezra Miller | Do | July 19, 1802 |
| Do do | Joseph Pope | Massachusetts | July 22, 1802 |
| Do do | Jedediah P. Turner | Delaware | Oct. 19, 1803 |

## LIST OF PATENTS—AGRICULTURE—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Thrashing machine | Thomas Barnett | Philadelphia, Pa. | Feb. 21, 1804 |
| Do do | James Deneale | Dumfries, Va. | Nov. 20, 1804 |
| Do do | Ben. B. Barnard | Virginia | Nov. 30, 1807 |
| Do do and cleaning grain | Simon Willard, jr. | Hudson, N. Y. | Nov. 30, 1807 |
| Do do | Randall Wallis | Baltimore, Md. | Nov. 9, 1808 |
| Do and winnowing machine | Lawrence Hock | Frederick co., Md. | Feb. 15, 1809 |
| Do machine | Robert Patten | Columbia, Pa. | Feb. 17, 1809 |
| Do and flax dressing machine | Samuel Condon | New Hartford, Ct. | Mar. 3, 1809 |
| Do and cleaning grain | Joseph Coppinger | Baltimore, Md. | Oct. 31, 1809 |
| Do machine, and shelling corn | Asa Cady | Florida, N. Y. | Dec. 27, 1809 |
| Do and cleaning machine | Joseph Comfort | Bucks co., Pa. | Jan. 25, 1810 |
| Do machine | Do | Do | Jan. 25, 1810 |
| Do do | Joseph Beach | Northfield, Mass. | Mar. 30, 1810 |
| Do do | Isaiah Jennings | Brookfield, N. Y. | Mar. 30, 1810 |
| Do fanning and cleaning grain from smut | Ezra Miller and John Andrews | Westmoreland, N.Y. | Aug. 15, 1810 |
| Do machine | Daniel C. Arnold | - - - | Dec. 15, 1810 |
| Do do | James W. Walker | Wilmington, N. C. | Feb. 9, 1811 |
| Do do | R. C. Van Houten | New York | Mar. 28, 1811 |
| Do do | Benja. S. Hort | Georgetown, S. C. | Feb. 21, 1812 |
| Do do | William Richards | Culpepper co., Va. | Mar. 2, 1812 |
| Do do | Joseph Goulding | Bangor, Mass. | Mar. 19, 1812 |
| Do do | Samuel Skiff | Sharon, Ct. | Dec. 5, 1812 |
| Do do | John Houpt, jr. | Bucks co., Pa. | Dec. 14, 1812 |
| Do do | J. Judson & J. Hotchkiss | Woodbury, Ct. | Nov. 27, 1812 |

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|---|---|---|---|---|
| Do | do | Thomas Warner | Genesee, N. Y. | May 11, 1815 |
| Do | do and cleaning grain | Abel Dinsmoore | Le Roy, N. Y. | July 29, 1815 |
| Do | and fanning machine | Elihu Hotchkiss | Brattleborough, Vt. | April 8, 1816 |
| Do | machine | Nathan Read | Boston, Mass. | Feb. 22, 1817 |
| Do | do | Thomas Cohoon and William Elliot | Washington, D. C. | April 12, 1817 |
| Do | do | Silas Smith | Albany, N. Y. | Aug. 23, 1817 |
| Do | do | Nathan Read | Belfast, Me. | Dec. 23, 1817 |
| Do | do | John Hersey | Matthews co., Va. | Feb. 9, 1818 |
| Do | do | Nathan Read | Belfast, Me. | Feb. 18, 1818 |
| Do | do | Thomas Beatty and Michael Shanks | Washington, D. C. | Feb. 25, 1818 |
| Do | do | James Jones, jun. | New Haven, Ct. | Feb. 25, 1818 |
| Do | do | Jas. & Joseph Gregg | Londonderry, N. H. | May 28, 1818 |
| Do | do | Chester Bullard, J. Gay, & Ira Draper | Norfolk co., Mass. | Dec. 16, 1818 |
| Do | do | Thomas Mayfield | Baltimore, Md. | Dec. 28, 1818 |
| Do | do | Wm. H. Ransome | Matthews co., Va. | Sept. 8, 1819 |
| Do | do and cutting | Daniel Youngs | Piermont, N. H. | April 17, 1819 |
| Do | do | Ezra Goodell | Phelps, N. Y. | June 6, 1820 |
| Do | do | Asa Shattuck | Pepperhill, Mass. | Aug. 23, 1820 |
| Do | do and cleaning | James Gregg | Londonderry, N. H. | Mar. 30, 1821 |
| Do | do | Benjamin Cumings | Brooklyn, N. H. | Sept. 1, 1821 |
| Do | do and cleaning rice | Michael Morrison | Waterbury, Ct. | Sept. 15, 1821 |
| Do | do and winnowing | Seth Ballou | Livermore, Me. | Dec. 12, 1821 |
| Do | do | Alvin Savage | Wheatland, N. Y. | Mar. 28, 1822 |
| Do | do | B. & J. Tyler and J. B. Andrews | Windsor, Vt. | April 23, 1822 |
| Do | do | R. Gillman | New York | April 29, 1822 |
| Do | do | Major McDonald | Topsham, Me. | July 9, 1822 |
| Do | do | Joseph Pope | Hallowell, Me. | July 30, 1822 |

LIST OF PATENTS—AGRICULTURE—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Thrashing machine | Timothy Howe | Turner, Me. | Dec. 3, 1822 |
| Do do and cleaning grain | N. Mills & J. Rogers | Bath, N. H. | Jan. 14, 1823 |
| Do do | Gideon Reynolds | New York | Jan. 21, 1823 |
| Do grain and cleaning flax | John Carll | Do | Feb. 12, 1823 |
| Do machine and straw cutter | Namon Goodsell | Clinton, N. Y. | Mar. 21, 1823 |
| Do do | Pierson Reading | Trenton, N. J. | April 15, 1823 |
| Do do | Joseph R. Miller | Dryden, N. Y. | April 25, 1823 |
| Do do | William Kirk | Baltimore, Md. | July 22, 1823 |
| Do do | Charles Smith | New York | Sept. 6, 1823 |
| Do do | Archibald Douglass | Marcellus, N. Y. | Sept. 18, 1823 |
| Do do and grinding grain | William S. Lewis | Pittsylvania, Va. | Oct. 20, 1823 |
| Do do and cleaning grain | Benjamin Lovejoy | Augusta, N. Y. | Dec. 31, 1823 |
| Do do | Andrew Noble | Alfred, Me. | Jan. 12, 1824 |
| Do and winnowing machine | Edmund Warren | Augusta, Me. | March 6, 1824 |
| Do and breaking flax and hemp | Gideon Reynolds | New York | July 20, 1824 |
| Do and smut machine | G. Bostwick and H. Spencer | Marylandtown, N.Y. | Dec. 24, 1824 |
| Do and cleaning machine | James Hyde | S. Pembroke, N. Y. | Feb. 8, 1825 |
| Do grain and breaking flax | A. & N. Reminton | Genoa, N. Y. | May 19, 1825 |
| Do do shelling corn | Pierson Reading | Trenton, N. J. | May 20, 1825 |
| Do machine | Richard Holden | Philadelphia, Pa. | May 20, 1825 |
| Do do improvement on Ballou's | J.C.Boyd & A.Kitchen | Rush township, Pa. | June 7, 1825 |
| Do do | William Hoyt | Brookville, Ind. | Sept. 9, 1825 |
| Do do | William Small | Augusta, Me. | Sept. 9, 1825 |

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| Do | do | called the Sidney - - - | Reuel Howard and J. B. Flagg | Sidney Kennebeck, Me. | Nov. 5, 1825 |
| Do | do | - - - - - | William Small - | Augusta, Me. - | Jan. 10, 1826 |
| Do | do | and breaking and dressing flax - | J. A. Haermanoe - | Red Hook, N.Y. - | Jan. 16, do |
| Do | do | and hulling clover seed - - | Joseph Potter - | Reading, Pa. - | Feb. 18, do |
| Do | do | and breaking flax and hemp - | D. Hurlbut, N. Etheridge, and J. A. Combs - | Herkimer, N. Y. - | Feb. 21, do |
| Do | do | - - - - - | John Shaw - | Kennebec, Me. - | May 10, do |
| Do | do | - - - - - | Seth Ballou - | Livermore, Me. - | May 25, do |
| Do | do | - - - - - | Pierson Reading - | Trenton, N. J. - | June 3, do |
| Do | and cleaning machine | - - - | Archibald Douglass - | Marcellus, N. Y. - | Sept. 8, do |
| Do | and winnowing machine | - - - | Sylvanus C. Hersey - | Rochester, N. Y. - | Nov. 7, do |
| Do | machine - - - - - | | James Hyde - | Pembroke, N. Y. - | Dec. 9, do |
| Do | do | vibrating - - - - | Moses Pennock - | Kennett's Square, Pa. | May 26, 1827 |
| Do | do | and winnowing and flax breaking ma. | Edmund Warren - | New York - | Aug. 11, do |
| Do | do | and breaking flax - - - | Peter Barker - | Worthington, Ohio - | Aug. 20, do |
| Do | do | - - - - - | Eb. B. Pike - | Litchfield, Me. - | Oct. 5, do |
| Do | do | and flax breaker - - - | David W. Webster - | Amesburg, Mass. - | Feb. 9, 1828 |
| Do | do | - - - - - | Elias B. Hort - | Charleston, S. C. - | Feb. 18, do |
| Do | do | - - - - - | Michael First - | Uniontown, Md. - | Mar. 3, do |
| Do | do | - - - - - | William Loomis - | Springfield, N. Y. - | Mar. 6, do |
| Do | do | - - - - - | John H. Bennett - | Aurelius, N. Y. - | April 10, do |
| Do | do | - - - - - | Calvin Emmons - | New York - | April 17, do |
| Do | do | - - - - - | Norton Case - | North Granville, Ohio | May 23, do |
| Do | do | called the universal drub - - | Samson Felton - | Killbuck, Ohio - | July 22, do |
| Do | do | - - - - - | Matthew Barney - | Nantucket, Mass. - | Aug. 5, do |
| Do | do | called the American thrasher - | John W. Post and J. Ryan | Philadelphia, Pa. New Baltimore, Va. | Oct. 10, do |
| Do | do | - - - - - | Samuel S. Allen - | Skeneatelas, N. Y. - | Nov. 1, do |
| Do | do | - - - - - | James S. Wood - | Botetourt co., Va. - | Jan. 9, 1829 |

LIST OF PATENTS—AGRICULTURE—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Thrashing machine | George Fuller | Gardiner, Me. | June 11, 1829 |
| Do do | Calvin Emmons | New York | July 27, do |
| Do do | Enoch Harman | Upper Wakefield, Pa. | August 5, do |
| Do do | James S. Wood | Pattensburg, Va. | Sept. 10, do |
| Do do | Thomas G. Owen | Baltimore, Md. | Nov. 26, do |
| Do do | William Barnes | Brookhaven, N. Y. | Dec. 14, do |
| Do do | John Haws | Hudson, N. Y. | Dec. 31, do |
| Tobacco, machine for cutting | Apollos Kinsley | Connecticut | Aug. 12, 1797 |
| Do do do | Peter Lorillard | New York | June 28, 1800 |
| Do curing | John Robinson | Charlotte, Va. | Feb. 25, 1809 |
| Do do and drying | Edmund Pendleton | Louisa co., Va. | Dec. 18, 1826 |
| Do do | Martin & Thos. Baker | Do | March 4, 1828 |
| Do tables for drying cut | George Campbell | Schenectady, N. Y. | Jan. 7, 1829 |
| Trees, fruit, preventing their destruction by worms | Paul Adams | Newbury, Mass. | June 19, 1812 |
| Trees, preventing canker worm in | Jonas Kendall | Leominster, Mass. | Jan. 4, 1816 |
| Wheelbarrows | Jeremiah Brainard | Rome, N. Y. | Aug. 26, 1819 |
| Do | Nathan Tufts, 2d | Charlestown, Mass. | Sept. 13, 1824 |
| Do horse | Jirch Rowley | Pittsford, N. Y. | Nov. 1, 1825 |
| Wheat rubber | James Deneale | Dumfries, Va. | July 1, 1809 |
| Wheat cutting machine | William P. Claiborne | King William co., Va. | Nov. 8, 1811 |
| Do rubbing do | John D. Richards | Middleburg, Va. | Feb. 27, 1812 |
| Do cleaning do | William Davis | Fairfield, Ct. | Jan. 24, 1815 |
| Do machine for washing, drying, and screening | Samuel Martin and Zad. Chapin | Ontario co., N. Y. | Jan. 18, 1820 |
| Do do for cleaning | Jedediah Tallman | Oneida co., N. Y. | May 8, 1882 |

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|---|---|---|---|
| Wheat, machine for cutting | John S. Pleasants | Halifax co., Va. | July 28, 1827 |
| Winnowing grain | John James, 3d | Plymouth, Mass. | May 4, 1813 |
| Do tub mill | Moses Elliot | Concord, N. H. | May 18, 1816 |
| Do machine | Thomas Beatty | Washington, D. C. | Oct. 5, 1818 |
| Do | Isaac Bromwell | Baltimore, Md. | Nov. 26, 1818 |
| Do | Horatio Watkins | Washington co., Md. | Mar. 18, 1819 |
| Do | Josiah Browne | New London, N. H. | Nov. 21, 1820 |
| Do | Henry Beadle | Wallingford, Ct. | Mar. 30, 1822 |
| Do and thrashing grain | E. P. Davis & W. Carey | Riga, N. Y. | June 11, 1829 |
| Yoke, horse | Adolphus Allen | Troy, N. Y. | June 29, 1827 |

## LIST OF PATENTEES—AGRICULTURE.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Allen, Adolphus | Troy, Pa. | Cattle, machine for watering | July 10, 1824 |
| Arnold, Samuel | Botetourt, Va. | Clover seed machine | Jan. 25, 1815 |
| Abbey, Roswell | New York | Coffee hulling machine | Jan. 1, 1825 |
| Adams, William | Virginia | Fan, wheat | March 1, 1816 |
| Atwell, Benjamin | Burlington, N. Y. | Fanning mill | Sept. 19, 1808 |
| Achey, Samuel | Heidelburg twnsh., Pa. | Flax, swingling | Feb. 18, 1828 |
| Armisted, William | Pr. William co., Va. | Fly, Hessian, or weavel in wheat, mode of destroying | Nov. 13, 1810 |
| Armat, Thomas | Philadelphia, Pa. | Hay and cattle, machine for weighing | May 10, 1811 |
| Avery, George D. | Wood co., Va. | Plough | Dec. 28, 1818 |
| Austin, Solomon | Sempronius, N. Y. | Do improvement on Wood's | Feb. 27, 1824 |
| Altison, Thomas | Newton, N. J. | Do cast iron | April 16, 1824 |

LIST OF PATENTEES—AGRICULTURE—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Avery, George D. | Georgetown, D. C. | Plough, cast iron | Feb. 15, 1825 |
| Do | Do | Do | Mar. 25, 1825 |
| Adams, Samuel | | Reaping machine | Dec. 28, 1805 |
| Ayres, Wm., and Herman Gay | Windsor, Vt. | Straw cutter | Aug. 13, 1817 |
| Arnold, Daniel C. | | Thrashing machine | Dec. 15, 1810 |
| Allen, Samuel S. | Skeneatelas, N. Y. | Do do | Nov. 1, 1828 |
| Adams, Paul | Newbury, Mass. | Trees, fruit, preventing their destruction by worms | June 19, 1812 |
| Allen, Adolphus | Troy, N. Y. | Yoke, horse | June 29, 1827 |
| Badger, Willard | Boston, Mass. | Apples, machine for paring, coring, and quartering | Feb. 16, 1809 |
| Blake, Edward | Hartford, Me. | Bee hive | Nov. 16, 1820 |
| Berkeymeger, F., and J. Dangler | Greenwich, Pa. | Cabbage, machine for cutting | Nov. 14, 1826 |
| Buckman, David | Pennsylvania | Clover seed and wheat cleaner | Dec. 21, 1803 |
| Bliss, Moses B. | Pittston, Me. | Cider mill | April 21, 1829 |
| Bottom, John | Warren, N. Y. | Clover seed machine | Jan. 28, 1822 |
| Bolton, John | Do | Do do mill | Jan. 9, 1823 |
| Burrall, Thomas D. | Geneva, N. Y. | Do do machine | June 5, 1823 |
| Bushnell, Howlet | Norwich, Ct. | Corn husking machine | Nov. 14, 1826 |
| Bulkley, Chauncey | Manchester, Vt. | Do sheller | May 25, 1824 |
| Bailey, Amon | Poultney, Vt. | Do do | Nov. 1, 1825 |
| Brown, John | Providence, R. I. | Do do | Mar. 18, 1828 |
| Bell, William and S. D. Montmollen | Georgia | Cotton gin | April 7, 1802 |
| Do do | Do | Do do | March 7, 1803 |

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|---|---|---|---|
| Bell, William | Pennsylvania | Do do | Nov. 24, 1803 |
| Barnes, Isaac B. | Beaufort, S. C. | Do do | Nov. 6, 1826 |
| Babcock, Isaac | Rensselaerville, N. Y. | Cradle for grain | Mar. 24, 1823 |
| Beach, William | Philadelphia, Pa. | Cultivator, tooth for | Nov. 8, 1825 |
| Beach, Waldren | Do | Do do and harrows | April 13, 1826 |
| Barret, Oliver, jun. | Sandy Hill, N. Y. | Fanning mill | Mar. 23, 1808 |
| Barnum, Thomas S. | Sharon, Ct. | Do | Jan. 15, 1812 |
| Beecher, Benja. D. | New Haven, Ct. | Do | May 30, 1816 |
| Barlow, Jonathan | Granville, Mass. | Flax dressing | Aug. 23, 1809 |
| Burdick, Francis | Kortright, N. Y. | Do dresser | Feb. 28, 1825 |
| Briggs, Joseph | Schoharie, N. Y. | Do breaking and dressing, thrashing and grinding grain | Oct. 5, 1825 |
| Betts, Hezekiah | Connecticut | Do and hemp machine | May 3, 1802 |
| Button, Richard | Cazenovia, N. Y. | Do do do | Feb. 11, 1807 |
| Benton, C. & W. A. | Amenia, N. Y. | Do do wheel for dressing | May 22, 1816 |
| Burden, Henry | Albany, N. Y. | Do do machine | June 15, 1822 |
| Barnum, T. S. & A. | New York | Do do do | Nov. 27, 1824 |
| Barnum, H. L., & M. Stephenson | Cambridge, N. Y. | Do do do | July 8, 1829 |
| Baker, Peter | Long Island, N. Y. | Grass and grain, machine for mowing | Feb. 19, 1814 |
| Bailey, Jeremiah | Chester co., Pa. | Do do do do | Feb. 13, 1822 |
| Bliss, Moses B. | Pittstown, Me. | Hay, machine for pressing | June 26, 1828 |
| Bulkley, Chauncey | Colchester, Ct. | Hoes, cast steel | Jan. 10, 1827 |
| Black, James A. | Columbia, S. C. | Do weeding and others | Oct. 13, 1828 |
| Blake, Thatcher | Paris, Me. | Hulling grass seed | July 12, 1822 |
| Barret, Nathaniel | Paris, N. Y. | Hulling grain | Aug. 21, 1823 |
| Bowman, James | Coosawatchie, S. C. | Manuring wagon | Aug. 12, 1829 |
| Beecher, John | Lycoming co., Pa. | Planting machine for corn, &c. | Mar. 18, 1809 |
| Blocher, John | Lancaster, Pa. | Do do do | April 12, 1814 |
| Butler, John & Joshua | Brandywine & Chester co., Pa. | Plough, bar share | Mar. 1, 1814 |
| Bean, Elisha | Massachusetts | Do for dressing corn | Mar. 4, 1816 |

## LIST OF PATENTEES—AGRICULTURE—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Bergen, Cornelius - | Brooklyn, N. Y. - | Plough - - - - - - - | Nov. 11, 1819 |
| Balthrope, John - | Loudoun co., Va. - | Do double shovel - - - - | Sept. 20, 1820 |
| Beach, Waldren - | Philadelphia, Pa. - | Do self-sharpening - - - - | Aug. 26, 1823 |
| Do - - | Do - - | Do do - - - - - | April 9, 1824 |
| Beach, William - | Do - - | Do - - - - - - | June 27, 1827 |
| Boatwright, James - | Columbia, S. C. - | Do - - - - - - | June 11, 1829 |
| Boynton, John - | South Coventry, Ct. - | Do iron - - - - - | July 10, 1829 |
| Brown, Thomas - | New York - - | Do - - - - - - | Sept. 11, 1829 |
| Bailey, Jer. - | Philadelphia, Pa. - | Rake, hay, horse - - - - - | Mar. 30, 1827 |
| Beck, John, & Joseph Coppinger - | Beck's Ferry, S. C. - | Rice, machine for beating out - - - - | Mar. 19, 1810 |
| Bronson, Zenas - | Jasper co., Ga. - | Rice and coffee hulling machine - - - | July 7, 1829 |
| Brown, Geo. McA. - | Northumberl'd co., Va. | Seed, machine for separating and rubbing - - | May 19, 1812 |
| Buck, David S. - | Hurley, N. Y. - | Seed cleaner, universal - - - - | Feb. 10, 1823 |
| Brayton, A., & H. C. Green - - | Cheshire, Mass. - | Straw cutter - - - - - | Dec. 5, 1817 |
| Bigelow, Alpheus - | Weston, Mass. - | Do do - - - - - | Feb. 13, 1818 |
| Benbow, Thomas - | Guilford co., N. C. - | Do do - - - - - | Feb. 6, 1827 |
| Booker, William - | Virginia - - | Thrashing machine - - - - - | Mar. 11, 1797 |
| Barnett, Thomas - | Philadelphia, Pa. - | Do do - - - - - | Feb. 21, 1804 |
| Bernard, Benja. B. - | Virginia - - | Do do - - - - - | Nov. 30, 1807 |
| Beach, Joseph - | Northfield, Mass. - | Do do - - - - - | Mar. 30, 1810 |
| Beatty, Thomas, and Michael Shanks - | Washington, D. C. - | Do do - - - - - | Feb. 25, 1818 |

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|---|---|---|---|
| Bullard, C., J. Gay, & Ira Draper | Norfolk co., Mass. | Do do | Dec. 16, 1818 |
| Ballou, Seth | Livermore, Me. | Do do and winnowing | Dec. 12, 1821 |
| Bostwick, G., and H. Spencer | Marylandtown, N.Y. | Do and smut machine | Dec. 24, 1824 |
| Boyd, J. C., and A. Kitchen | Rushtown, Pa. | Do machine, improvement on Ballou's | June 7, 1825 |
| Ballou, Seth | Livermore, Me. | Do do | May 25, 1826 |
| Barker, Peter | Worthington, Ohio | Do do and breaking flax | Aug. 20, 1827 |
| Bennett, John H. | Aurelius, N. Y. | Do do | April 10, 1828 |
| Barney, Matthew | Nantucket, Mass. | Do do | Aug. 5, 1828 |
| Barnes, William | Brookhaven, N. Y. | Do do | Dec. 14, 1829 |
| Baker, Martin & Thos. | Louisa co., Va. | Tobacco curing | March 4, 1828 |
| Brainard, Jer. | Rome, N. Y. | Wheelbarrow | Aug. 26, 1819 |
| Beatty, Thomas | Washington, D. C. | Winnowing machine | Oct. 5, 1818 |
| Bromwell, Isaac | Baltimore, Md. | Do do | Nov. 26, 1818 |
| Browne, Josiah | New London, N. H. | Do do | Nov. 21, 1820 |
| Beadle, Henry | Wallingford, Ct. | Do do | Mar. 30, 1822 |
| Coates, Moses | Pennsylvania | Apples, machine for paring | Feb. 14, 1803 |
| Cruttenden, Stephen | Guilford, Ct. | Do do do | Aug. 25, 1809 |
| Churchill, Bela | Buckfield, Me. | Do do grinding | Dec. 9, 1825 |
| Cumberland, William | New York | Bleaching unrotted flax or hemp | Aug. 27, 1822 |
| Cottle, John | Pennsylvania | Clover seed, machine for cleaning | Mar. 21, 1803 |
| Condon, Samuel | New Hartford, Ct. | Do do do | Mar. 31, 1809 |
| Crooker, Benjamin | New York | Corn sheller | Dec. 2, 1824 |
| Crawford, Obed | - - | Cotton gin | June 22, 1807 |
| Cruse, Englehart | Charleston, S. C. | Do | Nov. 18, 1816 |
| Carver, Eleazer, jun. | Bridgewater, Mass. | Do saw and grates for | June 12, 1823 |
| Do do | Do | Do | June 13, 1823 |
| Conn, S. T. | New York | Do | June 11, 1829 |
| Cobb, Isaac | Westminster, Vt. | Cultivator tooth | Dec. 7, 1829 |

LIST OF PATENTEES—AGRICULTURE—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Cannon, John | Delaware | Flax breaking machine | Jan. 17, 1801 |
| Cohoon, Thomas | Cazenovia, N. Y. | Flax and hemp machine | April 13, 1808 |
| Chappel, R. S. | Pawlett, N. Y. | Do do do | Jan. 18, 1809 |
| Cumberland, Wm. | New York | Do do do | July 9, 1822 |
| Do do | Do | Do do do for unrotted | Nov. 29, 1822 |
| Cox, Frederick | Somerville, N. J. | Do do do | Dec. 4, 1823 |
| Chinn, Achilles | Harrison co., Ken. | Do do rotting by steam | Dec. 28, 1825 |
| Christian, Evans | Philadelphia, N. Y. | Do do machine | Feb. 8, 1828 |
| Cohoon, Thomas | Troy, N. Y. | Do do do | April 25, 1829 |
| Cherry, Geo. W. | Derby, Ct. | Garden, geographical | May 27, 1825 |
| Child, Holand | Canton, Me. | Grain, cleaning | Jan. 11, 1823 |
| Comfort, John | Bucks co., Pa. | Grass and grain, machine for cutting | Feb. 26, 1811 |
| Cope, Ezra, & T. Hooper, jun. | Chester co., Pa. | Do do do mowing | May 18, 1825 |
| Carmichael, Wm. | Sand Lake, N. Y. | Hoes, horse, iron, for ploughing and weeding grain | July 28, 1827 |
| Cheatham, Jona. | Providence Inn, Va. | Do harrow and plough | July 31, 1827 |
| Campbell, Robert | Martinsburg, Va. | Hominy mill | April 9, 1827 |
| Cooley, David, jun. | Orange co., N. Y. | Horses and cattle, mode of breaking | June 23, 1810 |
| Cock, Townsend | New York | Do training and breaking | March 1, 1811 |
| Carman, Avon | Hyde Park, N. Y. | Do mode of improving the shape, &c. | Nov. 27, 1828 |
| Cocke, Andrew | Flushing, N. Y. | Planting machine for corn | Mar. 20, 1821 |
| Chenoweth, R. B. | Baltimore, Md. | Plough | Nov. 25, 1808 |
| Cromwell, John | Roysterstown, Md. | Do double | Oct. 23, 1816 |
| Carpenter, Bailey | Somerstown, N. Y. | Do share | July 1, 1822 |
| Clute, Peter J. | Schenectady, N. Y. | Do | Nov. 16, 1822 |

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|---|---|---|---|
| Chase, D., and A. & I. Gregg | Palmyra, N. Y. | Do cast iron | August 4, 1824 |
| Cocke, William | Luzerne township, Pa. | Do | April 28, 1826 |
| Cryer, Noble G. | Wentworth, N. C. | Do twin | Mar. 24, 1827 |
| Coppinger, Joseph | Beaufort, S. C. | Preserving animal and vegetable substances | Nov. 23, 1809 |
| Cooley, David | New York | Do do or do do | Oct. 24, 1814 |
| Campbell, John | Winnsborough, S. C. | Rice, machine for cleaning and hulling | May 31, 1827 |
| Cooke, Stephens | Marcellus, N. Y. | Smut or hulling machine | August 7, 1821 |
| Carpenter, Townsend | Elmira, N. Y. | Smut machine | Dec. 4, 1828 |
| Coates, Moses, & Evan Evans | Philadelphia, Pa. | Straw cutter | April 30, 1804 |
| Cleaveland, Josiah | Franklin co., Pa. | Do | July 18, 1807 |
| Conner, Benjamin | Portsmouth, N. H. | Do | July 20, 1807 |
| Canfield, Richard | Morristown, N. J. | Do | June 26, 1807 |
| Chamberlain, Calvin | Amenia, N. Y. | Do and corn sheller | Mar. 15, 1827 |
| Cummings, Warren | Livingston co., N. Y. | Do | Feb. 11, 1828 |
| Condon, Samuel | New Hartford, Ct. | Thrashing and flax dressing machine | Mar. 3, 1809 |
| Coppinger, J. | Baltimore, Md. | Do and cleaning grain | Oct. 31, 1809 |
| Cady, Asa | Florida, N. Y. | Do and shelling corn | Dec. 27, 1809 |
| Comfort, Joseph | Bucks co., Pa. | Do and cleaning machine | Jan. 25, 1810 |
| Do | Do | Do machine | Jan. 25, 1810 |
| Cohoon, Thomas, and Wm. Elliot | Washington, D.C. | Do do | April 12, 1817 |
| Cummings, Benja. | Brooklyn, N. H. | Do do | Sept. 1, 1821 |
| Carl, John | New York | Do grain and cleaning flax | Feb. 12, 1823 |
| Case, Norton | North Granville, O. | Do machine | May 23, 1828 |
| Campbell, George | Schenectady, N. Y. | Tobacco, tables for drying cut | Jan. 7, 1829 |
| Claiborne, Wm. P. | King William co., Va. | Wheat cutting machine | Nov. 8, 1811 |
| Demarest, David D. | New Milford, N. Y. | Apples, grinding | Jan. 14, 1829 |
| Dodson, Jer. | Guilford, N. C. | Corn-sheller, improvement on Pilsbury's | June 15, 1826 |
| Dean, Thomas I. | Virgin, N. Y. | Do | Dec. 8, 1828 |

LIST OF PATENTEES—AGRICULTURE—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Dodge, Samuel | Cleaveland, Ohio | Fanning mill | Feb. 9, 1808 |
| Donoghoe, Daniel | New York | Do do | April 16, 1821 |
| Davidson, Samuel | Romulus, N. Y. | Flax breaking | May 17, 1822 |
| Dana, J. A. | Cazenovia, N. Y. | Do and hemp machine | July 23, 1811 |
| Davidson, Wm. C. | Pittsford, N. Y. | Do do do | June 22, 1824 |
| Dodge, David | Hamilton, Mass. | Oil, extracting from flax seed | May 14, 1827 |
| Deaver, John | Baltimore, Md. | Plough | July 12, 1804 |
| Davis, Gideon | Sandy Spring, Md. | Do | May 26, 1818 |
| Ducher, Josiah | Durham, N. Y. | Do cast iron | Feb. 12, 1822 |
| Davis, Gideon | Georgetown, D. C. | Do | Oct. 1, 1825 |
| Dolfer, George | Fredericktown, Md. | Do right and left | Aug. 20, 1827 |
| Deats, John | Middletown, Pa. | Do | April 26, 1828 |
| Deakyns, John | Petersburg, Va. | Do bar share | Nov. 18, 1828 |
| Dagget, Ezra, and T. Kensett | New York | Preserving animal substances | Jan. 19, 1825 |
| Dellet, James | Pennsylvania | Rice, machine for cleaning | Dec. 23, 1796 |
| Dewey, Sherman | Hartford, Vt. | Do do hulling | Mar. 2, 1811 |
| Dayton, Giles | Springfield, Mass. | Straw cutter | Mar. 18, 1819 |
| Durham, Laban, and J. S. Pleasants | Halifax co., Va. | Do do | July 27, 1827 |
| Deneale, James | Dumfries, Va. | Thrashing machine | Nov. 20, 1804 |
| Dinsmore, Abel | Le Roy, N. Y. | Do do and cleaning grain | July 29, 1815 |
| Douglass, Archibald | Marcellus, N. Y. | Do do | Sept. 18, 1823 |
| Do | Do | Do and cleaning machine | Sept. 8, 1826 |
| Deneale, James | Dumfries, Va. | Wheat rubber | July 1, 1809 |

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|---|---|---|---|
| Davis, William | Fairfield, Ct. | Wheat, cleaning | Jan. 24, 1815 |
| Davis, E. P., and W. Carey | Riga, N. Y. | Winnowing machine and thrashing grain | June 11, 1829 |
| Emmons, Uri | New York | Apples, machine for grating | Feb. 13, 1828 |
| Do | Do | Cider mill and press, horse power | Jan. 31, 1829 |
| Eushank, J., jun. | Glasgow, Ky. | Cotton gin feeder | July 29, 1828 |
| Eve, Joseph | Pennsylvania | Cotton, separating seed | Dec. 6, 1803 |
| Ellis, William | New Jersey | Malt, washing | June 18, 1799 |
| Ellington, Garland | Madison co. Ala. | Plough | Dec. 25, 1824 |
| Evans, O. & C. | Philadelphia, Pa. | Plough, self-sharpening | April 14, 1825 |
| Edmonston, Thomas | Pike Creek, Md. | Preserving butter, eggs, &c. | April 26, 1827 |
| Eaton, T. | Albany, N. Y. | Scythe, farmers' carriage | Dec. 2, 1814 |
| Eastman, John S. | Baltimore, Md. | Straw cutter | Jan. 29, 1822 |
| Elliot, Richard R. | Massachusetts | Thrashing machine | Nov. 16, 1797 |
| Emmons, Calvin | New York | Do do | April 17, 1828 |
| Do | Do | Do do | July 27, 1829 |
| Elliot, Moses | Concord, N. H. | Winnowing tub mill | May 18, 1816 |
| Farnham, Joel | Tioga, N. Y. | Apples, machine for grinding | June 28, 1825 |
| Fuller, Jacob | Rockland, Va. | Corn sheller | Mar. 19, 1816 |
| Follet, Francis | Petersburg, Va. | Cotton, separating seed | Jan. 21, 1829 |
| Do | Do | Do do | Dec. 15, 1829 |
| Fitch, Samuel | Homer, N. Y. | Fanning mill | Oct. 29, 1814 |
| Frary, Justus | Southampton, Mass. | Do do | Feb. 17, 1829 |
| Fettrow, Andrew | York, Pa. | Grain, cleaning | May 28, 1818 |
| Forrester, Lot | Ridgefield, Ct. | Do do and scouring | Feb. 13, 1824 |
| French, Richard, and J. T. Hawkins | New Jersey | Grass and grain, machine for cutting | May 17, 1803 |
| Freeborn, Gideon | New York | Hoes | July 7, 1829 |
| Ford, Christopher | Painesville, Va. | Planting machine for cotton | May 26, 1825 |
| Fairbanks, Thaddeus | St. Johnsbury, Vt. | Plough, cast iron | April 19, 1826 |
| Foster, Ambrose | Auburn, N. Y. | Rake, hay, hand | Dec. 19, 1827 |

## LIST OF PATENTEES—AGRICULTURE—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Fowler, Maltby | New Haven, Ct. | Rice, machine for hulling and grain | July 28, 1820 |
| French, Richard | Morrisville, Pa. | Do do cleaning | Oct. 13, 1820 |
| First, Michael | Uniontown, Md. | Thrashing machine | Mar. 3, 1828 |
| Felton, Samson | Killbuck, Ohio | Do do called the universal drub | July 22, 1828 |
| Fuller, George | Gardiner, Me. | Do do | June 11, 1829 |
| Gates, Cyrus | Rutland, Vt. | Apples, machine for coring and quartering | Dec. 15, 1810 |
| Glendenning, Andrew | Loudoun co., Va. | Do do cutting | Sept. 9, 1823 |
| Gannett, Samuel H. | Greenville, Tenn. | Corn crusher | May 25, 1827 |
| Gallagher, Hugh | Pittsburg, Pa. | Do sheller, improvement on Phinney's | Oct. 29, 1818 |
| Guthrie, Rufus | Brimfield, Mass. | Do do do Janes' | Jan. 18, 1820 |
| Grosjean, Philip | Louisville, Ky. | Do do | July 29, 1828 |
| Gardiner, J. S. | Canandaigua, N. Y. | Do do | June 11, 1829 |
| Glendenning, Andrew | Butler co., Pa. | Do stalks, machine for cutting | Sept. 25, 1823 |
| Gilliam, Amos | Reedy Fork, S. C. | Cotton cleaner | Oct. 10, 1829 |
| Gould, William | McIntosh co., Ga. | Do gin, foot | Feb. 28, 1821 |
| Gillet, Daniel | Springfield, Mass. | Do seed, preparing for food | Sept. 15, 1819 |
| Goodsell, Namon | Paris, N. Y. | Flax and hemp machine | Sept. 19, 1822 |
| Gillman, Reynolds | New York | Do do breaking and shelling corn | Nov. 5, 1824 |
| Gaultry, Paul | Do | Flax seed, machine for cleaning | April 24, 1804 |
| Gaillard, Peter | Lancaster co., Pa. | Grass and grain, machine for mowing | Dec. 4, 1812 |
| Gebhard, John G. | New York | Oil, extracting from palma christi | Feb. 4, 1800 |
| Goodrich, Samuel, and John Adams | Hudson, N. Y. | Plough | Dec. 3, 1818 |
| Gibbs, George | New York | Do | March 8, 1820 |

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|---|---|---|---|
| Gill, C. G., and James Gill, (B. C.) | Chester, S. C. | Do | Mar. 25, 1822 |
| Gibson, John | Montgomery co., N.Y. | Do | May 2, 1822 |
| Gillet, Nath'l, jun. | Tallmadge township, O. | Do cast iron or wrought | Sept. 24, 1824 |
| Gordon, John | Copeck, N. Y. | Do prairie, bogging and ditching | Jan. 13, 1829 |
| Grant, Robert | South Carolina | Rice, machine for scouring | Oct. 17, 1796 |
| Gillespie, James | Middletown, Md. | Smut machine | Aug. 23, 1820 |
| Greene, Lemuel | Greene co., Ga. | Straw cutter | Dec. 21, 1819 |
| Golding, Joseph | Bangor, Mass. | Thrashing machine | Mar. 19, 1812 |
| Gregg, James & Joseph | Londonderry, N. H. | Do do | May 28, 1818 |
| Goodell, Ezra | Phelps, N. Y. | Do do | June 6, 1820 |
| Gregg, James | Londonderry, N. H. | Do do and cleaning | Mar. 30, 1821 |
| Gilman, R. | New York | Do do | April 29, 1822 |
| Goodsell, Naman | Clinton, N. Y. | Do do and straw cutter | Mar. 21, 1823 |
| Hart, Amos | Wharton townsh., Pa. | Apples, fruit, and roots, preserving | Aug. 10, 1829 |
| Haskins, Isaac H. | Columbia, N. Y. | Clover seed machine | May 6, 1824 |
| Heavin, John | Fredericktown, Md. | Corn sheller | May 8, 1810 |
| Hubbard, Hiram | Palmyra, N. Y. | Do | June 17, 1824 |
| Humphreys, Robert | Harpersfield, N. Y. | Do riddling and fanning machine | Dec. 24, 1824 |
| Hawley, Wm. C. | New York | Do | June 22, 1825 |
| Hoxie, Christo. C. | Hudson, N. Y. | Do | Dec. 8, 1825 |
| Hoyt, William | Vernon, Ind. | Do | April 29, 1828 |
| Hill, Charles | Essex co., Va. | Corn weeding machine | July 7, 1814 |
| Holmes, Hodgen | Georgia | Cotton gin | May 12, 1796 |
| Hancock, R., sen., and Edw. W. Carr | Philadelphia, Pa. | Do | Feb. 6, 1811 |
| Hall, James | - - - | Cultivator | Nov. 19, 1814 |
| Hubbard, Stephen, and Joseph Graves | Wilmington, Vt. | Do | June 21, 1823 |
| Herbert, Richard | Williamson co., Tenn. | Do | April 19, 1828 |
| Houston, Samuel | Virginia | Fan, wheat, thrashing, &c. | May 3, 1804 |

LIST OF PATENTEES—AGRICULTURE—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Hoffman, George | Fredericktown, Md. | Fan, wheat, thrashing, &c. | Aug. 21, 1829 |
| Haws, John | Hudson, N. Y. | Flax dressing | June 19, 1812 |
| Hines, Joseph, & Wm. Bain | New York | Do do | Aug. 12, 1826 |
| Hill, Eli F. | Fabius, N. Y. | Flax and hemp machine | Feb. 11, 1809 |
| Harper, William | Richmond, Va. | Do do do | Oct. 15, 1811 |
| Hall, Francis | Tennessee | Do do do | Oct. 7, 1813 |
| Hines, Joseph, & Wm. Bain | Columbus, Ohio | Do do do | Feb. 3, 1823 |
| Hook, Asa | Searmont, Me. | Flax seed, machine for cleaning | Sept. 9, 1823 |
| Honeywell, Israel | Hillsdale, N. Y. | Grain, cleaning | April 27, 1816 |
| Hopkins, H. & J. Pratt | Pompey, N. Y. | Harrow, self-sharpening | Nov. 9, 1824 |
| Houpt, Sebastian | Philadelphia, Pa. | Hulling machine, cylindrical | Nov. 16, 1812 |
| Hart, William J. | Tallmadge, Ohio | Do grain | May 21, 1824 |
| Harper, George | Jenkinstown, Pa. | Planting machine for potatoes | Mar. 23, 1818 |
| Harris, Hezekiah | Bullitt, Ky. | Plough | Feb. 24, 1808 |
| Hall, Stephen | Boston, Mass. | Do draining | July 13, 1810 |
| Harrison, Richard N. | New York | Do | Dec. 19, 1818 |
| Harris, Zadock | Hartford, N. Y. | Do | Mar. 17, 1819 |
| Hitchcock, David | New York | Do cast iron | Dec. 29, 1821 |
| Hawkins, G. W., and H. Emery | Windsor co., Vt. | Do do | Feb. 16, 1822 |
| Hitchcock, David | New York | Do | July 16, 1823 |
| Hackney, Obed | Lebanon, Ohio | Do | Aug. 29, 1823 |
| Hunt, James Y. | Tunbridge, Vt. | Do | Dec. 14, 1824 |

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|---|---|---|---|
| Holbridge, Z. S., and H. S. Lawson | Berne, N. Y. | Do | Aug. 9, 1826 |
| Howard, Charles | Hingham, Mass. | Do | Mar. 10, 1828 |
| Hart, Ezais | Berlin, Ct. | Rake for collecting apples | Dec. 31, 1812 |
| Hance, Thomas C. | Palmyra, N. Y. | Do hay | June 25, 1821 |
| Hoopes, Henry, & Ezra Hoopes | Wilmington, Del. | Do revolving | July 26, 1824 |
| Hoxie, Christopher | New York | Rice, machine for hulling | Jan. 7, 1803 |
| Heavin, John | Montgomery co., Va. | Straw cutter | April 17, 1806 |
| Hotchkiss, Elihu | Brattleborough, Vt. | Do | Aug. 2, 1808 |
| Haskell, Roger | Burlington, N. Y. | Do | May 25, 1809 |
| Hotchkiss, Elihu | Brattleborough, Vt. | Do | Jan. 18, 1817 |
| Hall, Benja. A., and Chauncey Hall | Middletown, Ct. | Do | Nov. 7, 1825 |
| Hodgson, William | Virginia | Thrashing machine | April 28, 1794 |
| Hoxie, Christopher | New York | Do do | Aug. 20, 1801 |
| Hock, Lawrence | Frederick co., Md. | Do and winnowing machine | Feb. 15, 1809 |
| Hoot, Benja. T. | Georgetown, S. C. | Do machine | Feb. 21, 1812 |
| Houpt, John, jun. | Bucks co., Pa. | Do do | Dec. 14, 1812 |
| Hotchkiss, Elihu | Brattleborough, Vt. | Do do and fanning machine | April 8, 1816 |
| Hersey, John | Matthews co., Va. | Do do | Feb. 9, 1818 |
| Howe, Timothy | Turner, Me. | Do do | Dec. 3, 1822 |
| Hyde, James | South Pembroke, N.Y. | Do and cleaning machine | Feb. 8, 1825 |
| Holden, Richard | Philadelphia, Pa. | Do machine | May 20, 1825 |
| Hoyt, William | Brookville, Ind. | Do do | Sept. 9, 1825 |
| Howard, Reuel, & J. B. Flagg | Sidney, Me. Kennebeck, Me. | Do do called the Sidney | Sept. 5, 1825 |
| Heermance, Jac. A. | Red Hook, N. Y. | Do do and breaking and dressing flax | Jan. 16, 1826 |
| Hulbert, D., & N. Etheridge, & J. A. Combs | Herkimer, N. Y. | Do do and breaking flax and hemp | Feb. 21, 1826 |
| Hersey, Sylvanus C. | Rochester, N. Y. | Do and winnowing machine | Nov. 7, 1826 |

LIST OF PATENTEES—AGRICULTURE—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Hyde, James | Pembroke, N. Y. | Thrashing machine | Dec. 9, 1826 |
| Hoit, Elias B. | Charleston, S. C. | Do do | Feb. 18, 1828 |
| Harman, Enoch | Upper Wakefield, Pa. | Do do | Aug. 5, 1829 |
| Haws, John | Hudson, N. Y. | Do do | Dec. 31, 1829 |
| Janes, Walter | Ashford, Ct. | Corn sheller | May 6, 1819 |
| Jennings, Isaiah | New York | Cotton gin | Dec. 27, 1815 |
| Do | Do | Do | Jan. 17, 1817 |
| Jessup, Thos. W. | Fredericktown, Md. | Fanning mill | June 18, 1811 |
| Johnson, John C. | Fayette co., Ky. | Flax and hemp machine | May 16, 1811 |
| Janes, Seth | | Horses' ears, mode of setting | Dec. 31, 1804 |
| Johnson, Luke | Leominster, Mass. | Plough, machine for drawing | Aug. 6, 1816 |
| Jenkins, John W. | Hudson, N. Y. | Do | July 6, 1820 |
| Jones, D. H., and W. F. Richardson | Palmyra, N. Y. | Do cutters and points for | July 29, 1823 |
| Johnson, Moses | New Hampshire | Preserving butter | June 30, 1797 |
| Jocelyn, Simeon | New Haven, Ct. | Pruning shears | July 13, 1809 |
| Jenning, Isaiah | New York | Roller, toothed, for preparing ground | Dec. 27, 1815 |
| Do | Brookfield, N. Y. | Thrashing machine | Mar. 30, 1810 |
| Judson, J., & J. Hotchkiss | Woodbury, Ct. | Do do | Nov. 27, 1812 |
| Jones, James, jr. | New Haven, Ct. | Do do | Feb. 25, 1818 |
| James, John, 3d | Plymouth, Mass. | Winnowing grain | May 4, 1813 |
| Kling, William | New Holland, Pa. | Apples, machine for cutting, also, potatoes, turnips, &c. | April 28, 1818 |
| Kelsey, F. | Lockport, N. Y. | Bees, management of | Aug. 26, 1828 |
| Kirk, Timothy | York, Pa. | Clover seed, machine for cleaning | July 28. 1803 |

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|---|---|---|---|
| Knox, Peter | Augusta, Ga. | Cotton gin, propelling | Dec. 7, 1826 |
| Kellog, Erastus | Palmyra, N. Y. | Flax and hemp machine | May 11, 1824 |
| Kelsey, Franklin | Middletown, Ct. | Do do do | Nov. 26, 1824 |
| Kimball, Ephraim | Fitchburg, Mass. | Hoes | April 3, 1819 |
| Klay, John | Fredericktown, Md. | Plough | Jan. 11, 1812 |
| King, George J. | Red Hook, N. Y. | Do cast iron | June 20, 1821 |
| King, Roswell | Darien, Ga. | Rice, machine for cleaning | Nov. 21, 1809 |
| Kirk, William | Baltimore, Md. | Thrashing machine | July 22, 1823 |
| Kinsley, Apollos | Connecticut | Tobacco, machine for cutting | Aug. 12, 1797 |
| Kendall, Jonas | Leominster, Mass. | Trees, preventing canker worm in | Jan. 4, 1816 |
| Loomis, William | Ashford, Ct. | Clover seed machine | April 27, 1822 |
| Lindsay, Noah | Catskill, N. Y. | Corn sheller | Mar. 28, 1821 |
| Little, Alverson | Columbia, Ct. | Do | Dec. 23, 1824 |
| Lane, Samuel | Hallowell, Me. | Do | Sept. 9, 1825 |
| Lewis, Benjamin | Ligonia, Me. | Flax and hemp machine | Jan. 28, 1824 |
| Lawrence, Christian | Chatham, N. Y. | Fork, hay and dung | July 26, 1823 |
| Litzenberger, John | Philadelphia, Pa. | Grain, cleaning and scouring | Nov. 24, 1823 |
| Lineback, John | Salem, N. C. | Hulling cotton seed | Mar. 31, 1814 |
| Lobdell, John | Warren co., Mi. | Planting corn, cotton, &c. | Dec. 26, 1826 |
| Lenox, Matthew, Wm. Croft, & H. Pitner | Steubenville, O. | Do do | Jan. 26, 1829 |
| Lane, Zebina | Harrisburg, N. Y. | Do machine for seeds | Sept. 21, 1829 |
| Lupton, John | Virginia | Plough, angular | July 31, 1817 |
| Lee, Abijah | West Chester, N. Y. | Do | July 22, 1822 |
| Loveridge, Richard | Knox co., Ohio | Do | Mar. 8, 1828 |
| Lane, Samuel | Hallowell, Me. | Reaping machine | Aug. 8, 1828 |
| Lucas, Jona., jun. | Charleston, S. C. | Rice, machine for cleaning | July 12, 1808 |
| Do | Do | Do do polishing | Nov. 6, 1819 |
| Leavitt, Joshua, and T. Leavitt | Comfort Lane Suffield, Ct. | Seed, separating from cotton | Mar. 24, 1825 |
| Lewis, William S. | Pittsylvania, Va. | Thrashing machine and grinding grain | Oct. 20, 1823 |

LIST OF PATENTEES—AGRICULTURE—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Lovejoy, Benjamin | Augusta, N. Y. | Thrashing machine and cleaning grain | Dec. 31, 1823 |
| Loomis, William | Springfield, N. Y. | Do do | March 6, 1828 |
| Lorillard, Peter | New York | Tobacco, machine for cutting | June 28, 1800 |
| Moore, Camm | Guilford co., N. C. | Apples, machine for grating, corn, &c. | Dec. 30, 1826 |
| Mosher, R. & A. | Galway, N. Y. | Do paring machine | Dec. 31, 1829 |
| Moore, Robert | Rowan co., N. C. | Buds, delaying from blossoming | Mar. 16, 1822 |
| Morris, Anson | Sacket's Harbor, N.Y. | Cheese curd, machine for cutting | May 2, 1829 |
| Miller, Martin | Pennsylvania | Clover seed, machine for cleaning | July 19, 1802 |
| Moon, John | Falls township, Pa. | Corn sheller | April 20, 1824 |
| Moon, John | Morrisville, Pa. | Do | June 27, 1825 |
| Murray, John | Georgia | Cotton gin | Dec. 23, 1796 |
| McBride, John | Nashville, Tenn. | Do | Aug. 8, 1805 |
| Miner, Frederick | New London, Ct. | Cultivator, American | Aug. 21, 1819 |
| Marquam, Edward | | Fan house | Mar. 28, 1803 |
| Mulliken, Samuel | Philadelphia, Pa. | Flax dressing and breaking | Mar. 11, 1791 |
| Mack, Elisha | | Do do | Mar. 21, 1806 |
| Mulliken, Samuel | Pennsylvania | Do and hemp machine | Jan. 15, 1795 |
| Miller, Robert | Lexington, Ky. | Do do do | July 13, 1811 |
| Millard, Ira | Kent, Ct. | Do do do | May 6, 1813 |
| Melville, David | Newport, R. I. | Do do do | Nov. 18, 1818 |
| Macdonald, James | New York | Do do do | Aug. 31, 1822 |
| Do | Do | Do do do | Jan. 18, 1823 |
| Medley, Reuben | Bloomfield, Ky. | Do do do | June 11, 1829 |
| Martin, Granville | Waterbury, Ct. | Fork, four-tined | June 13, 1823 |
| Morgan, Joel | Baltimore, Md. | Grain, cleaning and destroying insects | Feb. 28, 1810 |

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|---|---|---|---|
| McConaughey, Wm. | New Garden, Pa. | Harrow teeth | Dec. 8, 1823 |
| Do | Do | Do | Feb. 16, 1827 |
| Mason, William | Washington co., O. | Hemp break | Dec. 28, 1809 |
| Merrill, Pardon H. | Hillsdale, N. H. | Hoes | April 6, 1820 |
| Maltby, Benjamin, and Maltby, Fowler | New Haven, Ct. | Hulling grain | Feb. 28, 1818 |
| Do do | Do | Do and rice | Feb. 26, 1819 |
| Martin, Anthony B. | Baltimore, Md. | Manure or compost for improving soils | June 2, 1819 |
| Murray, Matthew | Middletown, Md. | Plough | August 7, 1813 |
| Morgan, J., and J. B. Harris | Scipio, N. Y. | Do | Aug. 11, 1814 |
| Miller, Perry | Washington co., N.Y. | Do | Oct. 26, 1818 |
| McCormick, Stephen | Fauquier c. h., Va. | Do | Feb. 3, 1819 |
| Marshall, P. H., and Jac. B. Smith | Lambertville, N. J. | Do | Mar. 3, 1820 |
| McCormick, Stephen | Fauquier, Va. | Do | Jan. 28, 1826 |
| Murphy, Bird | Union District, S. C. | Do for planting corn | Dec. 31, 1827 |
| McCormick, Stephen | Fauquier, Va. | Do | Oct. 22, 1828 |
| Medley, R. P. Altenderfer, & D. Altenderfer | Cootstown, Pa. | Do double | June 11, 1829 |
| Minturn, Jacob | Urbanna, Ohio | Do cast iron | June 11, 1829 |
| Miller, Timothy | Pittsburg, Pa. | Do | Oct. 23, 1829 |
| Morris, George | Philadelphia, Pa. | Preserving plants from frost | July 10, 1792 |
| Mulliken, Samuel | - - - | Rice, machine for scouring | Feb. 20, 1797 |
| Moore, Alex. D. | New Hanover, N.C. | Do do pounding | Jan. 19, 1809 |
| Masten, L. V. & C. | Penn Yan, N. Y. | Smut machine | April 25, 1826 |
| McDonald, Major | Topsham, Me. | Straw cutter | June 10, 1824 |
| Mulliken, Samuel | Philadelphia, Pa. | Thrashing machine | Mar. 11, 1791 |
| Martin, Thomas C. | - - - | Do do | June 2, 1798 |
| Miller, Ezra | New York | Do do and cleaning wheat | July 19, 1802 |

LIST OF PATENTEES—AGRICULTURE—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Miller, Ezra, and John Andrews | Westmoreland, N. Y. | Thrashing, fanning, and cleaning grain from smut | Aug. 15, 1810 |
| Mayfield, Thomas | Baltimore, Md. | Do machine | Dec. 28, 1818 |
| Morrison, Michael | Waterbury, Ct. | Do do and cleaning rice | Sept. 15, 1821 |
| McDonald, Major | Topsham, Me. | Do do | July 9, 1822 |
| Mills, N., & J. Rodgers | Bath, N. H. | Do do and cleaning grain | Jan. 14, 1823 |
| Miller, J. R. | Dryden, N. Y. | Do do | April 25, 1823 |
| Martin, Sam., & Zad. Chapin | Ontario co., N. Y. | Wheat, machine for washing, drying, and screening | Jan. 18, 1820 |
| Norton, Lewis M. | Goshen, Ct. | Cheese vat, for forming pine apple cheese | April 17, 1810 |
| Do | Litchfield, Ct. | Do nets | June 4, 1827 |
| Newman, Thomas | Guilford, N. C. | Corn sheller | Feb. 7, 1827 |
| Neefus, David | Flatlands, N. Y. | Fanning mill | Sept. 22, 1823 |
| Nichols, M. & I. | Otsego, N. Y. | Furrowing machine and corn dropper | Oct. 12, 1829 |
| Newbern, Aquila | Bristol, Pa. | Hoe harrow | June 1, 1824 |
| Newbold, Charles | New Jersey | Plough | June 26, 1797 |
| Nixon, George | New York | Do | June 3, 1823 |
| Nash, John | Talmadge, Ohio | Do | Oct. 14, 1823 |
| Nourse, Asa | St. Luke's, S. C. | Rice, machine for pounding | July 5, 1814 |
| Norton, John L. | New York | Do do cleaning and hulling | Mar. 10, 1826 |
| Nourse, Asa | Beaufort, S. C. | Do do | Mar. 19, 1828 |
| Do | Charleston, S. C. | Do mill, improvement on Keene's | Sept. 3, 1829 |
| Norton, John L. | Do | Do do steam | Dec. 16, 1823 |
| Nichols, John | Boston, Mass. | Sifting grain, flour, &c. | April 29, 1829 |
| Noble, Andrew | Alfred, Me. | Thrashing machine | Jan. 12, 1824 |

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|---|---|---|---|
| Olcott, Sands | Harsimus, N. J. | Gum, extracting from unrotted flax | Dec. 3, 1828 |
| Ogle, Samuel | Graceham, Md. | Plough | June 9, 1818 |
| Osborne, John | Blandford, Mass. | Straw cutter | Dec. 6, 1823 |
| Owen, Thomas G. | Baltimore, Md. | Thrashing machine | Nov. 26, 1829 |
| Pardee, Peter | Trenton, N. Y. | Agriculture, improvement | Feb. 6, 1829 |
| Paine, H. E., and S. H. Russell | Le Roy, Ohio | Apple mill | Mar. 5, 1827 |
| Pride, Daniel | Pottsdam, N. Y. | Cider mill and press | June 11, 1829 |
| Pettibone, Ozias | Hartford, Ct. | Do do | March 1, 1815 |
| Price, Nehemiah | Frederick co., Md. | Clover seed, machine for rubbing out | March 2, 1811 |
| Pilsbury, Paul | Massachusetts | Corn sheller | Oct. 25, 1803 |
| Phinney, Zina | Cairo, N. Y. | Do and wheat thrasher | Feb. 16, 1815 |
| Peck, Lemuel | Brookfield, Ct. | Do | April 9, 1824 |
| Price, Francis | New York | Do | May 4, 1825 |
| Pennoyer, Samuel | Cross River, N. Y. | Cotton gin | July 24, 1822 |
| Philips, David | Jefferson co., Mi. | Do | April 3, 1829 |
| Pomeroy, S. W. | Brighton, Mass. | Cotton plant, management of the | May 6, 1824 |
| Peyton, John | Orange, Va. | Fan and screen | Nov. 7, 1825 |
| Peck, Lemuel | Brookfield, Ct. | Fanning mill | Aug. 13, 1824 |
| Pinney, Ovid, and Jas. Olmsted | Caledonia, N. Y. | Do | Nov. 7, 1826 |
| Pullen, Thomas | Lexington, Ken. | Flax and hemp machine | June 20, 1816 |
| Pickingbottom, Wm. | New York | Do do preparing without water rotting | July 12, 1816 |
| Perkins, Calvin | Waterbury, Ct. | Fork, four tined | Jan. 27, 1829 |
| Peabody, Wm. H. | Woodbury, Ct. | Grain, cleaning, and seeds | June 8, 1810 |
| Patterson, James | Southampton, N. Y. | Hackling machine | Dec. 7, 1805 |
| Peacock, David | Burlington, N. J. | Plough | April 1, 1807 |
| Patrick, Matthew | Scipio, N. Y. | Do | June 2, 1813 |
| Pease, Horace | Enfield, Ct. | Do | Aug. 28, 1813 |
| Peacock, David | New Mills, N. J. | Do | May 29, 1817 |
| Potts, Joseph | Montgomery co., Pa. | Do share, rolled | Nov. 7, 1818 |

## LIST OF PATENTEES—AGRICULTURE—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Phelps, O., & G. Morehouse - - | Lansing, N. Y. - | Plough - - - - - - | Nov. 17, 1821 |
| Peacock, David - | Northampton, N.J. - | Do - - - - - - | June 21, 1822 |
| Pancost, William C. - | Addison, Vt. - | Do cast iron, with a double pointed wing - - | Jan. 29, 1824 |
| Pettis, Phineas - | Portage co., Ohio - | Do - - - - - - | Feb. 15, 1825 |
| Pugh, Eli - - | Chatham co., N. C. - | Do bar share - - - - - | Dec. 24, 1827 |
| Pennock, Moses - | E. Marlborough, Pa. | Rake, hay, horse - - - - - | June 26, 1822 |
| Do - - | Kennett's Square, Pa. | Do do grain and horse, revolving - - | Nov. 23, 1824 |
| Do - - | E. Marlborough, Pa. | Do do revolving - - - - - | Feb. 8, 1825 |
| Pennock, M. & S. - | Do - - | Do do and grain - - - - - | Feb. 17, 1827 |
| Purdy, Jeremiah - | Sherburne, N. Y. - | Sap bucket - - - - - | Oct. 4, 1817 |
| Pierce, Thomas - | Fishkill, N. Y. - | Smut machine - - - - - | Feb. 21, 1804 |
| Do - - | Do - - | Do fanning mill - - - - - | May 25, 1805 |
| Pease, Daniel, jr. - | Winfield, N. Y. - | Do machine - - - - - | Oct. 31, 1820 |
| Do - - | Do - - | Do do - - - - - | Feb. 27, 1823 |
| Pettis, Phineas - | Talmadge, Ohio - | Do do - - - - - | Aug. 12, 1824 |
| Pope, Joseph - | Massachusetts - | Thrashing machine - - - - - | July 22, 1802 |
| Patten, Robert - | Columbia, Pa. - | Do do - - - - - | Feb. 17, 1809 |
| Pope, Joseph - | Hallowell, Me. - | Do do - - - - - | July 30, 1822 |
| Potter, Joseph - | Reading, Pa. - | Do do and hulling clover seed - - | Feb. 18, 1826 |
| Pennock, Moses - | Kennett's Square, Pa. | Do do vibrating - - - - | May 26, 1827 |
| Pike, Ebenezer B. - | Litchfield, Me. - | Do do - - - - - | Oct. 5, 1827 |
| Post, J. W., & J. Ryan | New Baltimore, Va. | Do do called the American Thrasher - | Oct. 10, 1828 |
| Pendleton, Edward - | Louisa co., Va. - | Tobacco, curing and drying - - - - | Dec. 18, 1826 |
| Pleasants, John S. - | Halifax co., Va. - | Wheat, machine for cutting - - - - | July 28, 1817 |

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|---|---|---|---|
| Payne, H. E., & S. H. Russell | Le Roy, O. | Apple mill | March 5, 1827 |
| Quintard, Isaac | Stanfield, Ct. | Cider mill and bark mill | April 5, 1806 |
| Reed, Daniel | Easton, Mass. | Do and press | March 3, 1829 |
| Roberts, Jona., jun. | Pennsylvania | Clover seed, machine for cleaning | Feb. 13, 1796 |
| H. Rosevelt, and E. J. Rosevelt | New York | Corn sheller | Jan. 26, 1821 |
| Reading, Pierson | Trenton, N. J. | Do | Dec. 27, 1824 |
| Russell, Elijah | Greensburg, N. C. | Do | Oct. 24, 1826 |
| Reed, Jesse | Marshfield, Mass. | Cotton cleaner | Feb. 3, 1826 |
| Do | Do | Do sea island | Aug. 10, 1827 |
| Reading, Pierson | Trenton, N. J. | Flax breaking | Jan. 3, 1825 |
| Roberts, Owen | Pennsylvania | Flax and hemp machine | April 12, 1824 |
| Robinson, Nath'l P. | Fleming co., Ky. | Do do | Aug. 31, 1810 |
| Rumsey, Edward | Christian co., Ky. | Do do | April 26, 1811 |
| Ricketts, G. H., and J. Kinney, jun. | Mount Pleasant, N.J. | Do do | July 12, 1814 |
| Do do | Morristown, N. J. | Do do | Oct. 24, 1814 |
| Roumage, J. L. F. | New York | Do do | August 6, 1829 |
| Reed, Nathan | Belfast, Me. | Hominy mill | May 6, 1820 |
| Do | Do | Hulling coffee | Sept. 10, 1822 |
| Ruggles, Lazarus, and D. Tomlinson | Brookfield, Ct. | Onion seed, machine for separating from grain | Mar. 16, 1810 |
| Ross, William | Middle Baxton, Pa. | Planting and working corn | June 24, 1826 |
| Robbins, A. H. & L. | Denmark, N. Y. | Planting seed | Aug. 28, 1828 |
| Rhodes, Ryland | Albemarle co., Va. | Plough | Feb. 25, 1823 |
| Rich, John, jun. | Troy, N. Y. | Do hill side | Feb. 10, 1825 |
| Richardson, Wm. F. | Auburn, N. Y. | Do Auburn | June 28, 1825 |
| Russell, Herman | Litchfield, Me. | Do for planting corn | Jan. 16, 1827 |
| Rhodes, Ryland | Charlottesville, Va. | Do | Feb. 20, 1827 |
| Rhodes, John | Urbanna, Ohio | Do | June 11, 1829 |

LIST OF PATENTEES—AGRICULTURE—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Reading, Pierson - | Trenton, N. J. - | Rake, horse - - - - - - | August 1, 1818 |
| Rickets, John T. - | Cameron, Va. - | Rice, machine for cleaning and hulling - - | August 8, 1808 |
| Reed, Jacob - | Charleston, S. C. - | Do do pounding husks - - - | June 9, 1809 |
| Ruggles, Lazarus - | New York - - | Do do cleaning - - - | Oct. 12, 1821 |
| Ravenal, John - | Charleston, S. C. - | Do do do - - - - | May 17, 1828 |
| Rhodes, John & Adam | Union townsh., N. Y. | Scythe, circular - - - - - | Dec. 6, 1814 |
| Rice, Levi - - | Lockport, N. Y. - | Straw cutter and thrashing machine - - - | April 1, 1829 |
| Richards, William - | Culpeper co., Va. - | Thrashing machine - - - - - | Mar. 2, 1812 |
| Read, Nathan - | Boston, Mass. - | Do do - - - - - | Feb. 22, 1817 |
| Do - - | Belfast, Me. - | Do do - - - - - | Dec. 23, 1817 |
| Do - - | Do - - | Do do - - - - - | Feb. 18, 1818 |
| Ransome, Wm. H. - | Matthews co., Va. - | Do do - - - - - | Sept. 8, 1819 |
| Reynolds, Gideon - | New York - - | Do do - - - - - | Jan. 21, 1823 |
| Reading, Pierson - | Trenton, N. J. - | Do do - - - - - | April 15, 1823 |
| Reynolds, Gideon - | New York - - | Do do and breaking flax and hemp - | July 20, 1824 |
| Remington, A. & N. - | Genoa, N. Y. - | Do grain and breaking flax - - - | May 19, 1825 |
| Reading, Pierson - | Trenton, N. J. - | Do do and shelling corn - - - | May 20, 1825 |
| Do - - | Do - - | Do machine - - - - - | June 3, 1826 |
| Robinson, John - | Charlotte, Va. - | Tobacco, curing - - - - - | Feb. 25, 1809 |
| Rowley, Jireh - | Pittsford, N. Y. - | Wheelbarrow, horse - - - - - | Nov. 1, 1825 |
| Richard, John D. - | Middleburg, Va. - | Wheat, rubbing - - - - - | Feb. 27, 1812 |
| Sweet, John - - | Bethlehem, Mass. - | Bee hive - - - - - - | April 11, 1810 |
| Stanley, Timothy - | Farmington, Ct. - | Do - - - - - - | Dec. 9, 1811 |
| Do - - | Do - - | Do - - - - - - | Jan. 6, 1812 |
| Stillwell, Wm. J. - | Root, N. Y. - | Do - - - - - - | May 18, 1824 |

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|---|---|---|---|
| Smith, Moses | Massachusetts | Cattle, machine for watering | May 16, 1824 |
| Showerman, Timothy | Covington, N. Y. | Cider mill | July 20, 1825 |
| Spicer, Asher | Connecticut | Clover seed, machine for cleaning | April 22, 1802 |
| Sampson, William, and Cyrus Curtis | New Haven, Vt. | Do do | Jan. 6, 1809 |
| Spickard, Henry | Fincastle, Va. | Do do | Aug. 16, 1814 |
| Smith, John | Fredericksburg, Va. | Do do for gathering | April 28, 1815 |
| Sutton, Benjamin | Romulus, N. Y. | Do do | Feb. 10, 1825 |
| Stevens, Levi | New York | Corn sheller and grinder | May 8, 1804 |
| Spooner, Samuel | Petersham, Mass. | Do | Feb. 27, 1823 |
| Sheffield, Wm. E. | New York | Do | April 15, 1823 |
| Saltonstall, G. F. | North Carolina | Cotton cleaning machine | Sept. 2, 1801 |
| Do | Do | Do do | May 14, 1803 |
| Simonds, James, & Jos. McJames | Charleston, S. C. | Do cleaner | May 17, 1804 |
| Saltonstall, G. F. | Fayetteville, N. C. | Do hopper for cleaning | Dec. 31, 1817 |
| Sadler, Geo. F. | Lawrence co., Ala. | Do cleaner | Mar. 10, 1823 |
| Starke, Horatio | Wilkinson co., Mi. | Do scraper | Feb. 3, 1824 |
| Smith, Jabez | Petersburg, Va. | Do separating seed | Dec. 28, 1829 |
| Spooner, Eliakim | Vermont | Cultivator for corn and beans | Jan. 25, 1799 |
| Stillwell, Stephen | New York | Fan, wheat | July 9, 1802 |
| Snedeker, Samuel | Johnstown, N. Y. | Fanning mill | April 27, 1810 |
| Soper, Jabez | Windsor, Ct. | Do | Dec. 3, 1814 |
| Schoonhoven, Henry | Pultney, N. Y. | Flax dressing | Dec. 11, 1827 |
| Salisbury, Amos | Troy, N. Y. | Flax and hemp machine | April 15, 1829 |
| Salisbury, Amos, and John C. Langdon | Do | Do do | April 18, 1829 |
| Do do | Do | Do do | July 8, 1829 |
| Strong, Stephen | Wilkes township | Fruits, &c. drying | Sept. 2, 1811 |
| Schenck, Peter H. | New York | Grain, measuring | Feb. 15, 1810 |

LIST OF PATENTEES—AGRICULTURE—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Simmons, Dav. C., and Condy Raguet, adms. of James Simmons - | Philadelphia, Pa. - | Hay, machine for binding and pressing - - | Nov. 7, 1809 |
| Smedes, Abr. K. - | Lexington, Ky. - | Hemp, preparation - - - - - | Oct. 11, 1828 |
| Smith, Robert - | Pennsylvania - | Mould board - - - - - | May 19, 1800 |
| Spooner, Eliakim - | Vermont - - | Planting, machine for corn, &c. - - - | Jan. 25, 1799 |
| Smith, Frs. H. - | Richmond, Va. - | Do do cotton - - - - | Feb. 15, 1826 |
| Starr, Orson - | Richmond, N. Y. - | Do do grain - - - - | Aug. 22, 1828 |
| Sanford, John - | Sharon, Ct. - | Plough, varying the motion of the - - - | Aug. 20, 1811 |
| Sietz, John - | Strasburg, Pa. - | Do - - - - - - | Feb. 8, 1813 |
| Swan, John - | Scipio, N. Y. - | Do - - - - - - | July 5, 1814 |
| Schultz, H. - | Lancaster, Pa. - | Do - - - - - - | Dec. 17, 1814 |
| Swartwout, James - | Taghkanic, N. Y. - | Do - - - - - - | Nov. 13, 1819 |
| Stephens, Robert, and Edwin A. - - | Hoboken, N. J. - | Do - - - - - - | Sept. 13, 1820 |
| Seaver, John, and John Fay - - | Rockingham, Vt. - | Do cast iron - - - - - | Dec. 14, 1820 |
| Stephens, R. L. & E. A. | Hoboken, N. J. - | Do do - - - - - | April 23, 1821 |
| Do - - | Do - - | Do shares, hardening edges - - - | April 23, 1821 |
| Seely, Obed - - | Pottstown, Pa. - | Do cast iron - - - - - | Aug. 27, 1821 |
| Schuart, William G. - | Orange co., N. Y. - | Do - - - - - - | Feb. 5, 1822 |
| J. J. Schoonmaker, and J. Dolson - - | Ulster co., Dutchess, } N. Y. - | Do cast iron - - - - - | Dec. 7, 1822 |
| Swan, Jonathan - | Cayuga co., N. Y. - | Do do cutter for - - - - | April 24, 1824 |

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|---|---|---|---|---|
| Spicer, A. jr.; and J. Tower | Portage township, Talmadge co. | O. | Do | Sept. 25, 1824 |
| Shepherd, John | De Ruyter, N. Y. | | Do hill-side, double-nose, cast iron | April 12, 1826 |
| Sweeny, Robert | Warren co., Ohio | | Do cast iron | May 18, 1827 |
| Staples, Norman | Penn's Store, Va. | | Do hill side | Nov. 1, 1828 |
| Spencer, Elihu | New Haven, Ct. | | Rice, machine for cleaning | Dec. 5, 1821 |
| Shinir, Alexander | Charleston, S. C. | | Do do do | Dec. 21, 1825 |
| Sherwood, Stephen A. | Poughkeepsie, N. Y. | | Straw cutter | April 11, 1818 |
| Steele, Robert J. | Richmond co., N.C. | | Do | May 24, 1824 |
| Safford, Noah | Springfield, Vt. | | Straw cutting machine | Aug. 25, 1824 |
| Skiff, Samuel | Sharon, Ct. | | Thrashing machine | Dec. 5, 1812 |
| Smith, Silas | Albany, N. Y. | | Do do | Aug. 23, 1817 |
| Shattuck, Asa | Pepperell, Mass. | | Do do | Aug. 23, 1820 |
| Savage, Alvin | Wheatland, N. Y. | | Do do | Mar. 28, 1822 |
| Smith, Charles | New York | | Do do | Sept. 6, 1823 |
| Small, William | Augusta, Me. | | Do do | Sept. 9, 1825 |
| Do | Do | | Do do | Jan. 10, 1826 |
| Shaw, John | Kennebeck, Me. | | Do do | May 10, 1826 |
| Tyler, Benjamin | New Hampshire | | Fan, wheat | April 15, 1796 |
| Do | Do | | Flax and hemp machine | Feb. 26, 1799 |
| Tanner, Archibald | Trumbull co., Ohio | | Do do | Oct. 24, 1811 |
| Tibbitts, Lafayette | New Glasgow, Va. | | Do do | Aug. 1, 1829 |
| Tyler, John | Claremont, N. H. | | Grain, cleaning | May 11, 1827 |
| Tam, Lemuel | Sussex co., Del. | | Harrow, cleave | July 11, 1826 |
| Thorne, R. V. W. | New York | | Hay, machine for pressing | April 29, 1813 |
| Turbutt, Nicholas | Fredericktown, Md. | | Plough, common | Sept. 7, 1811 |
| Tonsley, Roswell | Cayuga co., N. Y. | | Do | Jan. 11, 1812 |
| Tonsley, Sylvanus | Onondaga co., N. Y. | | Do bull | May 28, 1813 |
| Tonsley, Roswell, and J. Swan | | | Do do | Nov 9, 1814 |
| Tice, Abr., & Is. Tice | Union Village, N. Y. | | Do | Aug. 21, 1819 |

## LIST OF PATENTEES—AGRICULTURE—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Talcomer, William | New York | Plough | Sept. 13, 1821 |
| Ten Eyck, James | Bridgewater, N. J. | Reaping machine | Nov. 2, 1825 |
| Tullock, William | Lantern Mills, Va. | Seed or grain cleaner | Oct. 28, 1806 |
| Tomlinson, Daniel | Brookfield, Ct. | Smut machine | May 20, 1812 |
| Tisdale, Ephraim | Warren co., N. Y. | Smut and wheat machine | July 31, 1819 |
| Tunstall, William | Richmond, Va. | Straw, cleaning grain from | June 30, 1804 |
| Thompson, William | Do | Thrashing machine | Aug. 2, 1791 |
| Turner, Jedediah P. | Delaware | Do do | Oct. 19, 1803 |
| Tyler, B. & I., and J. B. Andrews | Windsor, Vt. | Do do | April 23, 1822 |
| Tufts, Nathan, 2d | Charlestown, Mass. | Wheelbarrow | Sept. 13, 1824 |
| Tallman, Jedediah | Oneida co., N. Y. | Wheat, machine for cleaning | May 8, 1822 |
| Van Dewzer, Wm. | Warwick, N. Y. | Flax and hemp machine | June 30, 1813 |
| Van De Graaf, John S. | Scott, Ken. | Hemp break | May 12, 1828 |
| Vinton, Seth | Wilmington, Ct. | Plough harrow | Nov. 18, 1807 |
| Van Houten, Ruliff | New York | Thrashing machine | Mar. 28, 1811 |
| Weeks, Constant H. | Paris, N. Y. | Apples, machine for grinding | April 9, 1827 |
| Williams, Simon C. | Shenandoah co., Va. | Bee hive | May 14, 1823 |
| Wiggins, Cuthbert | Fayette co., Pa. | Do | Feb. 27, 1827 |
| Warrell, Jacob | Pennsylvania | Clover seed machine | Feb. 27, 1804 |
| Withers, Michael | Lancaster, Pa. | Do do for shelling | April 30, 1804 |
| Williams, Thomas | Pittsylvania, Va. | Corn covering machine | Dec. 19, 1822 |
| Whitney, Lewis | New York | Do sheller | Nov. 13, 1824 |
| Waring, Geo. E. | Poundridge, N. Y. | Do do longitudinal | Mar. 16, 1827 |
| Whitney, Eli | Massachusetts | Cotton gin | Mar. 14, 1794 |

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|---|---|---|---|
| Watkins, Robert | Georgia | Do | Dec. 23, 1796 |
| Whiting, Ebenezer | Massachusetts | Do | Jan. 22, 1801 |
| Willis, William | South Carolina | Cutting box | Aug. 24, 1822 |
| Whitman, David | Paradise, Pa. | Dairy cooler | Dec. 7, 1826 |
| Weaver, Samuel | Frederick co., Md. | Fan, wheat | Mar. 11, 1816 |
| Walker, Enoch | Springfield, Pa. | Fanning mill | Mar. 28, 1825 |
| Do | Do 4 corners | Do | Sept. 20, 1827 |
| Wilde, Oliver | Canaan, N. Y. | Flax dressing | April 16, 1810 |
| Wheeler, William | Warren, N. Y. | Do dresser | Mar. 26, 1825 |
| Wakely, Platt | Augusta, N. Y. | Do and hemp, dressing | April 16, 1824 |
| Wenzel, John C. | Louisville, Ken. | Do do machine | Jan. 17, 1828 |
| Watson, James Y., and J. Blossom, and A. Burnet | Salem, N. Y. | Do do do | April 21, 1829 |
| Watson, Joseph | Canaan, Ct. | Hoes | July 26, 1823 |
| Whitin, Paul | Northbridge, Mass. | Do | Feb. 22, 1825 |
| Wilson, Joseph | Marlborough, N. H. | Do pronged | Sept. 20, 1827 |
| Whiting, Charles | Massachusetts | Oil, extracting | March 2, 1799 |
| Whitlaw, Charles | New York | Plant, applicable to various uses | Jan. 11, 1812 |
| Woodward, Frederick | New Lisbon, N. Y. | Plough, planting | July 18, 1809 |
| Wood, Jethro | Scipio, N. Y. | Do | July 1, 1814 |
| Do | Poplar Ridge, N. Y. | Do | Sept. 1, 1819 |
| Wright, J. S. | Greenwich, N. Y. | Do | July 28, 1820 |
| Wood, Charles, & Gilbert Brundage | Blooming Grove, N. Y. | Do | Nov. 9, 1820 |
| Wood, John | Castleton, N. Y. | Do shifting share | Feb. 1, 1821 |
| Willis, William | Edgefield, S. C. | Do drill and cotton thinner | May 7, 1822 |
| Woolley, Joseph | Troy, N. Y. | Do | Sept. 14, 1822 |
| Weaver, John | Washington, D. C. | Do for listing and preparing land | May 8, 1823 |
| Winans, Ross | Vernon, N. Y. | Do cast iron | May 11, 1824 |
| Whitman, Stephen W. | Harpersfield, Ohio | Do | May 7, 1825 |

## LIST OF PATENTEES—AGRICULTURE—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Wiard, William | Avon, N. Y. | Plough | Jan. 26, 1828 |
| Wilder, Elijah | Jersey City, N. J. | Rice, machine for cleaning, and cleaning coffee | Nov. 6, 1827 |
| Warren, Edmund | New York | Do do thrashing | Feb. 22, 1828 |
| Wilson, Thomas | Baltimore, Md. | Smut and garlic, machine for cleaning from wheat | Feb. 8, 1819 |
| Woodward, Frederick | Butternuts, N. Y. | Smut and scouring machine | Aug. 10, 1821 |
| Whitlock, Samuel | Vermont | Straw cutter | Mar. 3, 1817 |
| Wardrop, James | Ampthill, Va. | Thrashing machine | Nov. 5, 1794 |
| Willard, Simon, jr. | Hudson, N. Y. | Do do and cleaning grain | Nov. 30, 1807 |
| Wallis, Randall | Baltimore, Md. | Do do | Nov. 9, 1808 |
| Walker, James W. | Wilmington, N. C. | Do do | Feb. 9, 1811 |
| Warner, Thomas | Genesee, N. Y. | Do do | May 11, 1815 |
| Warren, Edmund | Augusta, Me. | Do and winnowing machine | Mar. 6, 1824 |
| Do | New York | Do do and flax breaking machine | Aug. 11, 1827 |
| Webster, David W. | Amesburg, Mass. | Do machine and flax breaker | Feb. 9, 1828 |
| Wood, James S. | Pattensburg, Va. | Do do | Sept. 10, 1829 |
| Do | Botetourt co., Va. | Do do | Jan. 9, 1829 |
| Watkins, Horatio | Washington co., Md. | Winnowing machine | Mar. 18, 1819 |
| Youngs, Daniel | Piermont, N. H. | Thrashing machine and cutting | April 17, 1819 |
| Zorger, Michael | York, Pa. | Clover seed machine | May 10, 1805 |

## LIST OF PATENTS—FACTORY MACHINERY.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Anchors, faggoting | J. Tucker & J. Judge | Washington, D. C. | Nov. 19, 1829 |
| Andirons | John Stickney | Baltimore, Md. | May 4, 1805 |
| Do | Willoughby Dexter | Winchester, Ct. | May 17, 1814 |
| Do | William Pye | New York | Nov. 16, 1821 |
| Do pedestal feet | Edmund Smylie | Do | Feb. 1, 1827 |
| Do repairing and finishing | Do | Do | Feb. 22, 1827 |
| Do constructing feet of brass | John Griffiths | Do | Mar. 15, 1827 |
| Anvil and hammer | Charles Josselyn | Pembroke, Mass. | Oct. 9, 1816 |
| Auger, gauge | Abel Stowell | Massachusetts | Feb. 14, 1803 |
| Do | Christopher Hoxie | Hudson, N. Y. | July 12, 1804 |
| Do | William Hale | Champlain, N. Y. | Feb. 7, 1807 |
| Do double podded centre screw | Ezra L'Hommedieu | Saybrook, Ct. | July 31, 1809 |
| Do common screw | Oliver Stetson & Wm. Sebree | Georgetown, Ken. | Dec. 11, 1810 |
| Do mining | Perkins Nichols | Boston, Mass. | May 18, 1811 |
| Do twisted screw for boring guns, pistols, &c. | Daniel Pettybone | Philadelphia, Pa. | Feb. 12, 1814 |
| Do | Martin Howe | New York | April 2, 1814 |
| Do | Joseph Brownell | Otsego, N. Y. | May 16, 1815 |
| Do single twist | Ezra L'Hommedieu | Norwich, Ct. | July 17, 1816 |
| Do for boring square holes | Cyrus Jackson | Otsego co., N. Y. | Feb. 14, 1818 |
| Do tube | Robert Thomas | Richmond co., N.C. | May 29, 1819 |
| Do twisted screw for boring guns, &c. | William Holmes | Winchester, N. H. | April 4, 1820 |
| Do post | Christopher Hoxie | Hudson, N. Y. | July 26, 1824 |
| Do strap | Cyrus Gore | Sheshequin, Pa. | July 20, 1825 |
| Do mode of turning any number | Hardin Branch | New York | Aug. 7, 1826 |

## LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Auger | J. H. Schreiner | Philadelphia, Pa. | Aug. 17, 1826 |
| Do set for wheel hubs | Sheldon Caswell | Windham, Ct. | Nov. 20, 1826 |
| Do screw | Judson Smith | Derby, Ct. | July 13, 1827 |
| Do do | David Bassett | Do | Mar. 18, 1829 |
| Do hollow | Abel Conant | Pepperville, Mass. | June 11, 1829 |
| Do serpentine screw | George Shetter | York, Pa. | Sept. 10, 1829 |
| Axes, &c. sharpening | John Shotwell | New Jersey | Mar. 16, 1799 |
| Do pick | Luke Baker | Putney, Vt. | Jan. 15, 1822 |
| Do making | John Alley, sen. | Pise, Ind. | April 9, 1829 |
| Bands, iron keyed | Edward Cooper | Richmond, Va. | Sept. 14, 1826 |
| Band boxes, machine for cutting | Benjamin Mestayer | New York | Nov. 13, 1821 |
| Bars, hollowing out iron | Thomas Rowand | Gloucester co., Pa. | Dec. 24, 1819 |
| Beams, for looms | Simeon Pettee | Foxborough, Mass. | June 15, 1813 |
| Do weavers | Goliah Williams | North Providence, R. I. | Aug. 24, 1813 |
| Do iron, pattern for casting | Aaron Dana | Troy, N. Y. | Dec. 28, 1824 |
| Beaming machine | Jer. Ladd | New Hampshire | July 17, 1801 |
| Do do | Allen Hill | Hillsdale, Mass. | May 6, 1805 |
| Bells, improvement in | Robert Leslie | Philadelphia, Pa. | Feb. 2, 1793 |
| Do do for cows | Simeon Newton | Connecticut | Dec. 22, 1804 |
| Do do for fire engines | James P. Parke | Philadelphia, Pa. | Dec. 19, 1808 |
| Do do moulding and casting | Benjamin Hanks | Albany, N. Y. | Nov. 4, 1816 |
| Do do hanging | Anthony Lynar | New York | Dec. 24, 1819 |
| Do do | William Hoyt | Brookville, Ind. | March 3, 1825 |
| Do do | H. Tyler | Utica, N. Y. | Oct. 20, 1826 |
| Do do hanging | James Russell | New York | Oct. 10, 1829 |

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| Binding, ornamental, and raised banding | D. K. Vanveckton | New York | Dec. 12, 1820 |
| Biting figures on steel cylinders for printing calicoes | David H. Mason and M. W. Baldwin | Philadelphia, Pa. | Oct. 30, 1827 |
| Blankets, combining wool into | Elkanah Cobb | Georgetown, D. C. | April 29, 1812 |
| Do and cloth, making from sheep's wool | Allen Barnes, Samuel Gray & Jabez Clark | Windham, Ct. | Feb. 3, 1813 |
| Do manufacturing, improvement on Cobb's machine | Jac. Getzendennar | Frederick co., Md. | Sept. 30, 1814 |
| Bleaching cotton by steam | Alexander Milne and Daniel S. Deane | Clinton, N. Y. | July 14, 1813 |
| Do do and linen yarn | Jonas Kendall | Leominster, Mass. | Aug. 22, 1817 |
| Do | George Keintzle | Montgomery co., Pa. | Oct 8, 1818 |
| Block making | Eben. Whiting | Massachusetts | April 1, 1802 |
| Blowing and striking, mode of | L. Hoyt and E. Pierce | Poultney, N. Y. | Mar. 3, 1827 |
| Bobbin tube | J. Manchester | Warwick, R. I. | Dec. 13, 1824 |
| Do do for spinning cotton | Benjamin Hutchinson | Philadelphia, Pa. | Oct. 18, 1827 |
| Do machine | James A Post | Warwick twnsh., N.Y. | April 23, 1828 |
| Do and flyers for cotton spinning | Charles Danforth | Ramapo, N. Y. | Sept. 2, 1828 |
| Do and flyer, Canton woollen | Wm. B. Taber | Canton, Mass. | Jan. 30, 1829 |
| Bolts and bars, forging | Clement Rentgin | Pennsylvania | Nov. 17, 1796 |
| Do for ships, mode of casting | Joseph Share | Baltimore, Md. | Oct. 28, 1805 |
| Do machine for cutting off the ends of | John Rewey | Berkshire, N. Y. | May 8, 1811 |
| Do copper, for shipbuilding | Berg & Ivers | New York | Mar. 15, 1824 |
| Do racks for doors | John Brown and Geo. W. Robinson | Providence, R. I. | Mar. 24, 1826 |
| Bonnets and hats made of grass | Gurden Wells and Sophia Wells | Weathersfield, Ct. | Dec. 29, 1821 |
| Boring blocks for cartouch boxes, brushes, &c. | Val. Bogenrieff | Georgetown, D. C. | July 10, 1810 |
| Do bit nut for gun barrels | James Green | Harper's Ferry, Va. | Oct. 3, 1817 |
| Boxes for pulleys, casting metallic | Lebbeus Larrabee | Nantucket, Mass. | Nov. 4, 1811 |
| Braiding machine | John Thorp | Providence, R. I. | Aug. 10, 1821 |
| Do do | Do | Do | July 10, 1826 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Brads, machine for cutting - - - - | Jonathan Ellis - | - - - | Feb. 10, 1807 |
| Do do do - - - - | Seth Boyden, jun. - | Boston, Mass. - | June 27, 1815 |
| Do and sprig machine - - - - | Gudley Jenkins - | Plymouth co., Mass. | May 16, 1817 |
| Do and tack do - - - - | Sam. Rogers & Thos. Blanchard - | Boston, Mass. - | Oct. 3, 1817 |
| Brand for flour barrels - - - - | William Ross - | New Orleans - | Dec. 2, 1825 |
| Brooms, machine for making - - - - | Shadrack H. Weed - | Poughkeepsie, N.Y. | Feb. 3, 1819 |
| Do do do hickory - - - | Adam Sclater - | Oxford township, Pa. | Feb. 15, 1826 |
| Brushes, machine for making from broom corn - | Bazaleel Croasdale - | Byberry, Pa. - | Dec. 21, 1819 |
| Do do whitewashing - - | Elijah S. Curtis - | Charlestown, Mass. - | June 2, 1820 |
| Do blocks - - - - - - | Stacy Costill - | Philadelphia, Pa. - | Feb. 25, 1824 |
| Do brooms, &c. of grass - - - - | S. H. Weed - | New York - - | Feb. 28, 1825 |
| Do manufacturing - - - - | David Wooster - | China, N. Y. - | Feb. 16, 1829 |
| Buckles for suspenders - - - - | Orange Webb - | New York - - | July 5, 1817 |
| Buttons, manufacturing - - - - | Geo. W. Robinson - | Providence, R. I. - | Mar. 24, 1804 |
| Do securing in a lathe - - - - | Do - - | Do - - | June 27, 1809 |
| Do moulds for casting metal - - - | Do - - | Do - - | May 14, 1812 |
| Do hold fast while polishing - - - | Ira Ives - - | New Haven, Ct. - | June 18, 1814 |
| Do moulds, single jointed pewter, for casting wire-eyed - - - - - - | John B. Collins - | Merriden, Ct. - | April 12, 1815 |
| Do moulds, wooden - - - - | Anson Mathews - | Southington, Ct. - | April 26, 1815 |
| Do smoothing and rounding the eye of metal - | Ira Ives - - | Bristol, Ct. - - | Aug. 7, 1815 |
| Do constructing eyes for metal, cast in moulds - | Do - - | Do - - | Aug. 7, 1815 |
| Do setting eyes of metal, in the moulds - - | Do - - | Do - - | Aug. 7, 1815 |
| Do machine for making wire neck metal - - | Heman Mathews - | Southington, Ct. - | Sept. 12, 1815 |

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| Do machine for finishing metal | Heman Mathews | Southington, Ct. | Sept. 12, 1815 |
| Do composition for wire-eyed | Samuel H. Woodruff and Anson Mathews | Connecticut | Mar. 1, 1816 |
| Do turning | Daniel French | Bridgeport, Pa. | April 23, 1816 |
| Do moulds, wooden | John Norton | Southington, Ct. | June 13, 1816 |
| Do glass, finishing | Spencer Richards | Attleborough, Mass. | Aug. 19, 1822 |
| Do grinding steel dies for | Willard Robinson | Do | Mar. 3, 1829 |
| Cables, improving the quality | Nathl. Cutting | Washington, D. C. | July 14, 1806 |
| Do laying and spinning ropes for | Wm. Shultz | Baltimore, Md. | June 24, 1809 |
| Do chain | Isaiah Jennings | New York | Oct. 29, 1821 |
| Do do | Erastus Bartholomew | Boston, Mass. | May 17, 1826 |
| Do do and hemp, proving | John Judge | Washington, D. C. | Nov. 29, 1828 |
| Cards, machine for dealing | Robert Bailey | Washington, D. C. | May 15, 1812 |
| Card boards, smoothing | Daniel Stearns | Brattleborough, Vt. | Mar. 10, 1814 |
| Card teeth, cutting | Joshua Lamb | Leicester, Mass. | Aug. 1, 1827 |
| Card machines, packing sheets of leather on cylinders of | Joshua Lamb | Leicester, Mass. | Aug. 21, 1819 |
| Cards for wool | Amos Whittemore | Massachusetts | June 5, 1797 |
| Do machine for straining and grinding | John Boynton | Windham co., Ct. | Mar. 30, 1811 |
| Do for cotton | William Barker | Smithfield, R. I. | Aug. 12, 1815 |
| Do machine for grinding and facing | Gideon Drake | Windsor, Ct. | Feb. 28, 1817 |
| Carding machine for wool hats | Abner Guild | Dedham, Mass. | Mar. 31, 1806 |
| Do do fur and wool hats | Arnold Buffum | - - | Feb. 21, 1807 |
| Do do wool | Daniel Smith | Philadelphia, Pa. | June 14, 1809 |
| Do and spinning wool | Alanson Holmes | Pomfret, N. Y. | Jan. 8, 1810 |
| Do machine | Heman Palmerlee | Shoreham, Vt. | May 25, 1811 |
| Do do for wool | George Booth | Poughkeepsie, N. Y. | Oct. 13, 1812 |
| Do do for cloth | John Jessup | Orange co., N.Y. | Feb. 6, 1813 |
| Do spinning and roping machine | Thos. Norton & Geo. Biddis | Milford, Pa. | April 15, 1813 |
| Do hair of neat cattle | Arthur Kimball | New York | Nov. 4, 1813 |
| Do machine for wool | Lewis French | New Haven, Ct. | May 18, 1814 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Carding, drawing, and roping cotton | Wm. Tiffany and Phineas Allen | Otsego, N. Y. | July 17, 1815 |
| Do machine for gleaning savers | James Hugus | Greenbush, Pa. | Sept. 15, 1815 |
| Do do | Joshua Woodward | Portage, Ohio | May 2, 1821 |
| Do and spinning wool | Philo C. Curtis | Paris, N. Y. | Oct. 15, 1823 |
| Do wool | E. Hale, J. S. Hale, and James Hale | Haverhill, Mass. | Feb. 18, 1825 |
| Do machine | Nathaniel Rider | Sturbridge, Mass. | Mar. 12, 1825 |
| Do do | Elijah Thompson | Lowell, Mass. | June 9, 1826 |
| Do do | James H. Arnold | Bellemont, Ohio | Sept. 25, 1826 |
| Do do | John Tillon | Newtown, Ct. | Sept. 8, 1827 |
| Do do | Henry A. Shannon | Columbia co., N.Y. | April 5, 1828 |
| Do do | D. M. Bacon | Huntington, Pa. | Oct. 10, 1828 |
| Do do | John Boynton | South Coventry, Ct. | April 11, 1829 |
| Do do | James W. Shankland | Summerfield, Ohio | May 5, 1829 |
| Carpets of paper | Francis Guy | Baltimore, Md. | Feb. 23, 1819 |
| Carpeting, ingrain | Jno. & Nichs. Haight | New York | Aug. 12, 1820 |
| Do do | Wm. A. Prince | Do | Feb. 12, 1823 |
| Do woollen | Wm. Harrington | Harrison, N. Y. | March 3, 1829 |
| Do felt | Aaron Byington | Herkimer, N. Y. | May 6, 1829 |
| Do woollen | Wm. Harrington | Harrison, N. Y. | June 11, 1829 |
| Candles, manufacturing | Joseph Sampson | Boston, Mass. | Aug. 6, 1790 |
| Do do | Richard Robotham | New York | June 2, 1794 |
| Do do | Joseph S. Sampson | Massachusetts | June 26, 1797 |
| Do dipping | Samuel Blydenburg | Connecticut | Mar. 22, 1798 |

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| Do do | William Miller | New York | Jan. 6, 1809 |
| Do do | Samuel Stansbury | Do | Jan. 6, 1809 |
| Do manufacturing of tallow and wax | James Zwisler | Baltimore, Md. | April 2, 1812 |
| Do do mould and dipped | Do | New York | July 1, 1814 |
| Do do mould | David M. Randolph | Richmond, Va. | Aug. 1, 1815 |
| Do moulding sperm | Wm. W. Swain | New Bedford, Mass. | Jan. 14, 1820 |
| Do wick | Shaylor Ives | Chillicothe, Ohio | May 17, 1820 |
| Do dipping | John Aborn | Burlington co., N.J. | Mar. 20, 1821 |
| Do manufacturing | Francis Fuller | New York | Sept. 29, 1821 |
| Do do | James M. Yard | Trenton, N. J. | Dec. 4, 1821 |
| Do dipping | William Day | Gardiner, Me. | Mar. 11, 1826 |
| Chair, elastic | Samuel Gragg | Boston, Mass. | Aug. 31, 1808 |
| Do bottoms | Abner Ellis | Dedham, Mass. | June 12, 1811 |
| Do do | James Elliott, jun. | Philadelphia, Pa. | May 26, 1812 |
| Do reclining | John Mead | Albany, N. Y. | Mar. 18, 1816 |
| Do eagle | William J. Weaver | New York | June 14, 1816 |
| Do posts for sitting | Elijah Farrington | Do | Oct. 29, 1816 |
| Do bottoms, table tops, &c. | John Wall | | Oct. 29, 1816 |
| Do convalescing | John Mead | Albany, N. Y. | Mar. 14, 1817 |
| Do nursing | Andrew Woods | Charlestown, Va. | Mar. 13, 1822 |
| Do easy | Joseph D. Finney | Keene, N. H. | May 8, 1823 |
| Do | Jacob Daley | Baltimore, Md. | Feb. 22, 1827 |
| Chains, watch | Samuel Keplinger | Do | May 4, 1820 |
| Do do | John Hatch | Do | June 5, 1820 |
| Do &c., and preventing them from slipping | James Cooper | Augusta co., Va. | June 17, 1823 |
| Do frame | David Leslie | New York | Nov. 19, 1827 |
| Chest, fire-proof | Jesse Delano | Do | Mar. 7, 1826 |
| Chisel, bearded, mortising | Silas Metcalf | Wilmington, Vt. | Jan. 17, 1827 |
| Cloth dressing machine | Isaac Sanford | Connecticut | Mar. 27, 1799 |
| Do brushing and finishing | Seth Hart | Hempstead, N. Y. | July 27, 1812 |
| Do making of hair | William Shotwell and Arthur Kinder | New York | July 23, 1813 |

## LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Cloth, sizing and dressing | Paul Moody | Waltham, Mass. | Jan. 17, 1818 |
| Do drying by steam rollers | Duncan Wright | Medley, Mass. | Aug. 31, 1820 |
| Do scouring dry | Thomas L. Jennings | New York | March 3, 1821 |
| Do ornamenting, &c. | James C. Wood | Philadelphia, Pa. | Dec. 14, 1821 |
| Do fulling and scouring | Horace Hickox | Rutland, N. Y. | Mar. 26, 1825 |
| Do singeing | A. Robeson | New Bedford, Mass. | Sept. 8, 1826 |
| Do manufacturing | J. P. & R. G. Hazard | Providence, R. I. | Dec. 6, 1828 |
| Do do | Henry Raymond | New York | June 27, 1829 |
| Do do without spinning or weaving | N. Peck & D. Taylor | Fairfield co., Ct. | June 27, 1829 |
| Do forming the web without spinning or weaving | John Arnold | Norwalk, Ct. | July 15, 1829 |
| Do washing and fulling, and making carpeting | Harvey Slayton | Lockport, N. Y. | Nov. 25, 1829 |
| Colors, imprinting | Lewis J. B. Wells | Philadelphia, Pa. | Jan. 24, 1817 |
| Combs, pointing and cutting | Isaac Tryon | Connecticut | Feb. 22, 1798 |
| Do manufacturing | Phineas Pratt | Do | April 12, 1799 |
| Do do | Do | Saybrook, Ct. | March 5, 1808 |
| Do do hair | Moses Moss | Farmington, Ct. | Jan. 10, 1809 |
| Do do wooden | Nat. Jones | Southington, Ct. | May 9, 1809 |
| Do do from hoofs of cattle | Robert Gedney | New York | June 26, 1809 |
| Do do hair | Timothy Stanley | Southington, Ct. | July 6, 1809 |
| Do do and plating horn with tortoise shell | John P. Spies | Baltimore, Md. | Jan. 8, 1810 |
| Do do ivory | David Williams, 3d | Saybrook, Ct. | Mar. 28, 1810 |
| Do do socket hair | Eli Parsons | Bristol, Ct. | Aug. 16, 1810 |
| Do do clarifying horse hoofs for | Edwd. M. Canviss | Southington, Ct. | May 6, 1812 |
| Do twinning machine | Dan'l Carrington, and Ira Ives | Litchfield, Ct. | Aug. 20, 1813 |

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|---|---|---|---|---|
| Do | cutting at a single operation - - - | Joseph H. Derby - | Leominster, Mass. - | May 26, 1814 |
| Do | manufacturing, and slitting horn for lanterns, &c. | John Pulsifer - | Newbury, Mass. - | May 24, 1814 |
| Do | stamp twinning and horn splitting machine - | Samuel Hills and Moses Emery, jr. - | Newburyport, Mass. | Oct. 21, 1814 |
| Do | cutting horn or tortoise shell - - - | Simeon Allen - | - - - | April 1, 1815 |
| Do | manufacturing - - - - | Eli Sperry - | New Haven, Ct. - | Mar. 28, 1816 |
| Do | teeth, cutting - - - - | Maulby J. Littleboy | Philadelphia, Pa. - | May 28, 1816 |
| Do | manufacturing horn and shell - - - | Samuel Parmelee - | Saybrook, Ct. - | July 15, 1816 |
| Do | cutting machine - - - - | Thomas G. Thomas - | Philadelphia, Pa. - | June 14, 1817 |
| Do | twinning horn and tortoise shell - - | David E. Noyes - | Do - - | Sept. 6, 1817 |
| Do | metallic hair - - - - - | Wm. A. Langworthy | Ballstown, N. Y. - | Feb. 28, 1818 |
| Do | cutting machine - - - - | Daniel Pettibone - | Philadelphia, Pa. - | April 10, 1818 |
| Do | metallic hair - - - - - | Lynus North - | Otsego, N. Y. - | May 28, 1818 |
| Do | manufacturing - - - - - | Daniel Pettibone - | Philadelphia, Pa. - | Aug. 11, 1818 |
| Do | cutting - - - - - | David E. Noyes - | Do - - | Oct. 14, 1819 |
| Do | do - - - - - | Nison Foot - - | Do - - | Oct. 28, 1819 |
| Do | do - - - - - | Benjamin Haskell - | Paris, France - | Nov. 3, 1819 |
| Do | manufacturing hair - - - - | Ira Ives - - | Bristol, Ct. - - | April 5, 1823 |
| Do | teeth, cutting - - - - - | Joel Brown - - | Springfield, Mass. - | Dec. 8, 1824 |
| Do | do sawing - - - - - | Philo Pratt - - | New York - - | April 20, 1825 |
| Do | do cutting ivory - - - - | Do - - | Do - - | Sept. 9, 1825 |
| Do | making ornamental - - - - | Uriah Bailey - | West Newbury, Mass. | Nov. 15, 1827 |
| Do | rolling the backs of tortoise-shell, Brazilian, or horn - - - - - | Nathaniel Bishop - | Danbury, Ct. - | Nov. 17, 1827 |
| Do | machine for grailing - - - - | Philo Pratt - - | Meriden, Ct. - | Feb. 12, 1828 |
| Do | forming and shaping - - - - | Samuel Lambert - | Hanover co., Va. - | Jan. 9, 1829 |
| Do | wooden - - - - - - | Nathaniel Bushnell - | Middletown, Ct. - | April 14, 1829 |
| Do | manufacturing - - - - - | John Brown - | Providence, R. I. - | June 11, 1829 |
| Do | do snuff boxes, &c. from raw hides - | Samuel Pike - | Do - - | June 11, 1829 |
| Do | ornamenting - - - - - | Eb. Mustin - | Philadelphia, Pa. - | June 27, 1829 |
| Do | rubbing down and polishing - - - | Lewis B. Prindle and T. Curtis - | Newtown, Ct. - | Oct. 10, 1829 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Combs, manufacturing | Eli Sperry | New Haven, Ct. | Oct. 10, 1829 |
| Composition for preparing cotton and wool cards | John M. Gates | Warren, Mass. | Sept. 14, 1815 |
| Do applied before carding | Ziba Parkhurst | Grafton, Mass. | Aug. 19, 1826 |
| Do to start the oil that wool contains | John Goulding | Dedham, Mass. | Aug. 24, 1827 |
| Cordage, manufacturing | George Parkinson | Pennsylvania | June 16, 1794 |
| Do do | John Pittman | Rhode Island | May 25, 1795 |
| Do do | R. Fulton & N. Cutting | New York | March 4, 1808 |
| Do do | Abel Hill | Walpole, N. H. | June 30, 1812 |
| Do preparation of silk weed for | George Smith | New York | May 28, 1813 |
| Do manufacturing | Charles L. Sargeant | Suffolk, Mass. | Oct. 4, 1817 |
| Do do | St. & Jas. A. Bazen | Canton, Mass. | Oct. 17, 1817 |
| Do do | Wm. B. Leonard | Fishkill, N. Y. | Jan. 9, 1819 |
| Do do and rope | Robert Colbert | Boston, Mass. | Mar. 17, 1819 |
| Do do | Robert Graves | Do | April 10, 1819 |
| Do laying | Do | Do | Nov. 22, 1820 |
| Do do | Do | Do | Feb. 1, 1821 |
| Do top sled | Do | Do | Mar. 28, 1821 |
| Do pressing tar out of | Thomas Barnitt | Philadelphia, Pa. | May 20, 1822 |
| Do manufacturing | Franklin Kellsey | Middletown, Ct. | Feb. 8, 1825 |
| Do do | Erastus Bartholomew | Boston, Mass. | May 17, 1826 |
| Do do | Robert Graves | Brooklyn, N. Y. | July 25, 1827 |
| Corks for bottles | James Barron | Hampton, Va. | Jan. 12, 1819 |
| Cotton, machine for winding | David Brown, jun. | Warren, R. I. | Feb. 5, 1807 |
| Do do inspecting | Lewis Viales | New Orleans | Oct. 29, 1818 |
| Do do whipping | William Hopkins | Plainfield, Ct. | March 6, 1823 |

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|---|---|---|---|
| Do manufacturing | John T. Sharrock | Winchester, Va. | June 20, 1823 |
| Do of wool vibrating rolling machine | Jesse Hopkins | Strasburg, Pa. | Jan. 14, 1824 |
| Do process of manufacturing | Elisha Congdon | Norwich, Ct. | Mar. 12, 1824 |
| Do rolls, machine for forming | C. Whiting, S. Lowder, & Sam. Lowder | Dedham, Mass. | June 25, 1824 |
| Do manufacturing into yarn | Luther Crane | Ware, N. H. | Mar. 26, 1825 |
| Couch, accommodation | John Mead | Albany, N. Y. | Mar. 13, 1817 |
| Crucibles, making | James Delliba | Watervleit, N. Y. | Sept. 26, 1823 |
| Cups and saucers, Columbia metallic | John Love | Baltimore, Md. | June 14, 1814 |
| Cylinder, multiplying hollow | Thomas Powell | New York | Dec. 3, 1813 |
| Dies, metal | Benjamin Mead and Giles Richards | Boston, Mass. | July 2, 1814 |
| Dies, founders' moulding | Eb. Bryant | New London, Ct. | Mar. 18, 1818 |
| Dying silk | Abner Stearns | West Cambridge, Ms. | Mar. 22, 1809 |
| Do do | William Barrett | - - - | June 27, 1809 |
| Do do | Thomas Harrison and Robert Pierpont | New York | Oct. 18, 1814 |
| Do and finishing silk | Abner Stearns & Wm. Barrett | West Cambridge, Ms. | Jan. 30, 1818 |
| Do do | Abner Stearns & Wm. Barrett | Boston, Mass. | Sept. 8, 1818 |
| Do nankeen | Adolphus G. Trott | New York | Feb. 11, 1825 |
| Do hair of seal skins | Joseph Herring | Do | Nov. 16, 1826 |
| Do by steam | Reuben Wood | Erin, N. Y. | Aug. 25, 1829 |
| Doffer, circulating and transverse | Charles Atwood | Middletown, Ct. | April 18, 1829 |
| Dog power | Anthony Tiernan | New York | April 27, 1818 |
| Drums, soldering, straightening factory | Luke N. Perry | Worcester, Mass. | Jan. 23, 1829 |
| Elevator for pots and kettles | John Edwards | New York | Mar. 19, 1825 |
| Emery, manufacturing | William Garratt | New Lisbon, N. Y. | Feb. 27, 1819 |
| Eyes, metal, for weavers' harness | J. Conger & L. Woodbury | Locke, N. Y. | Nov. 15, 1825 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Fabrics, machine for reducing | John Biddis | Pennsylvania | May 6, 1800 |
| Felting cloth | Oliver Barrett, jr. | Troy, N. Y. | Dec. 8, 1812 |
| Do of wool, without spinning or weaving | Levi Van Hoesen | Norwalk, Ct. | June 27, 1829 |
| Do and fulling machine | John D. Lounsbury, John Arnold, John A. M'Lean, and G. G. Bishop | Norwalk, Ct. | July 15, 1829 |
| Felt, manufacturing | J. Barker & L. Kinsley | Green co., N. Y. | Aug. 29, 1829 |
| Fender for fire places | Elijah Skinner | Sandwich, N. H. | April 19, 1822 |
| Do do | Matthew Benson | Cincinnati, Ohio | May 19, 1823 |
| Files, cutting | Ernst Gehbe | Northampton co., Pa. | Oct. 10, 1811 |
| Do do | Charles Hesser and Amos Paxson | Philadelphia, Pa. | April 11, 1812 |
| Do manufacturing | Levi & Dav. Anderson | Do | April 20, 1812 |
| Do cutting | Morris B. Belknap | Worcester, Mass. | June 13, 1812 |
| Do do and rasps | Samuel G. White | Haverhill, Mass. | July 11, 1812 |
| Do do | William T. James | Greenwich, N. Y. | Nov. 19, 1812 |
| Do do | Cyrus Jackson | Butternuts, N. Y. | May 28, 1813 |
| Do do | Chs. & Daniel Platt | Sharon, Ct. | March 7, 1814 |
| Do do | Silas Hawes | Bennington, Vt. | May 11, 1814 |
| Do do | John Hatch | Dedham, Mass. | May 1, 1815 |
| Do do | Do | Roxbury, Mass. | Oct. 10, 1828 |
| Do renewing old | A. P. & E. Brittingham | New York | July 27, 1829 |
| Do cutting | Morris B. Belknap | Greenfield, Mass. | Jan. 16, 1812 |
| Flax and hemp, preparing for spinning | John Owings | Baltimore, Md. | March 5, 1812 |

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|---|---|---|---|
| Do do do do | Pinder Antrim | Philadelphia, Pa. | Nov. 25, 1814 |
| Flyers for spinning cotton yarn | Azariah Walton | Keene, N. H. | Jan. 6, 1812 |
| Do do do | Martin Newton | Fitchburg, Mass. | Sept. 28, 1812 |
| Do do do | Nehemiah Giles | Do | Nov. 19, 1812 |
| Forks, pitch | Jared Byington | Hinesborough, Vt. | Jan. 12, 1813 |
| Do four-tined dung | Martin Stevens | New Haven, Ct. | April 16, 1824 |
| Fulling mill, double crank | Levi Osborn | Fairfield, Ct. | July 12, 1804 |
| Do do and washing | John Kennion | Dutchess co., N.Y. | Mar. 26, 1806 |
| Do do | Asa Danielson | Otsego, N. Y. | May 16, 1815 |
| Do do | Martin Lee | Do | Nov. 6, 1817 |
| Do cloth by steam | Ross Winans | Warwick, N. Y. | June 26, 1821 |
| Do do | M. W. Northrop and R. R. Dillon | Newtown, N. J. | Dec. 4, 1823 |
| Fur cutting machine | Martin Clark | New York | April 21, 1810 |
| Do do do | Eleazer Sprague | Danbury, Ct. | May 9, 1810 |
| Do do from peltry | Joshua Witherle | Boston, Mass. | May 28, 1811 |
| Do do from skins | Ira Ives | Bristol, Ct. | May 19, 1812 |
| Do do from peltry | Ephraim Cutter | Walpole, N. H. | Feb. 4, 1813 |
| Do do do | William Jackson | Burlington, N. J. | Feb. 2, 1815 |
| Do pulling do | Do | Do | Feb. 2, 1815 |
| Do cutting machine | David Beard | Guilford, N. C. | April 30, 1816 |
| Do do and cloth-shearing machine | Benja. Marshall and Dearborn Johnson | Concord, N. H. | Dec. 7, 1816 |
| Do wool, &c., cleaning | Daniel Vail | Philadelphia, Pa. | Feb. 21, 1821 |
| Do blower | Wm. B. Rotch | New Bedford, Mass. | Mar. 9, 1824 |
| Do preparing for hats | Arnold Buffum | Troy, N. Y. | Sept. 28, 1825 |
| Do cutting machine | Jer. Hubbard | Jamestown, N. C. | Nov. 4, 1826 |
| Do cutter, cant twist blade | Chs. C. K. Beach | Portland, Me. | Nov. 10, 1827 |
| Do cutting machine | Michael Petre | Womelsdorf, Pa. | Dec. 20, 1827 |
| Gimlets, twisted screw | Joseph Broad | Salisbury, Ct. | June 25, 1813 |
| Glass, manufacturing | Thomas Bakewell | Pittsburg, Pa. | March 3, 1815 |

## LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Glass furnaces - - - - - - | Jac. Stanger and Daniel H. Miller - | Philadelphia, Pa. - | Aug. 18, 1815 |
| Do manufacturing - - - - - | William Price - | Pennsylvania - | March 4, 1816 |
| Do composition - - - - - | do - | Pittsburg, Pa. - | April 30, 1816 |
| Do furniture - - - - - - | Jno. P. Bakewell - | Do - | Sept. 9, 1825 |
| Do knobs for doors, &c. - - - - | Henry Whitney and E. Robinson - | Cambridge, Mass. - | Nov. 4, 1826 |
| Do do mode of fastening - - - - | William Price - | Pitt, Pa. - - | Nov. 14, 1826 |
| Do do pressed at one operation - - - | John Robinson - | Pittsburg, Pa. - | Oct. 6, 1827 |
| Do moulds for pressing - - - - | Phineas C. Dummer | Jersey City, N. J. - | Oct. 16, 1827 |
| Do do combination of, in forming - - | and G. & P. C. Dummer & J. Maxwell - | Do - | Oct. 16, 1827 |
| Do knobs, improvement on Bakewell's - - | Ts. B. & J. P. Bakewell | Pittsburg, Pa. - | May 14, 1828 |
| Do melting and fusing - - - - | Thos. W. Dyott - | Philadelphia, Pa. - | Oct. 10, 1828 |
| Do manufacturing, use of salt from ley - - | G. H. Burgin - | Do - | April 3, 1829 |
| Do do knobs and screws - - | Deming Jarves - | Boston, Mass. - | June 13, 1829 |
| Do do commode knobs - - - | Elijah Skinner - | Sandwich, N. H. - | June 11, 1829 |
| Do moulding, &c. - - - - - - | Deming Jarves - | Boston, Mass. - | Dec. 1, 1828 |
| Gridirons, guttered - - - - - | Thomas Mussey - | New London, Ct. - | March 6, 1820 |
| Do - - - - - - | Daniel Ball - - | Ballstown, N. Y. - | Aug. 29, 1822 |
| Do - - - - - - | Jona. Powers - | Lansingburg, N. Y. - | Aug. 10, 1829 |
| Gun barrels, boring - - - - - | Nathan Fordes - | Plymouth, N. H. - | Dec. 22, 1804 |
| Do stocks, turning - - - - - | Thos. Blanchard - | Middlebury, Ms. - | Sept. 6, 1819 |
| Do do do - - - - - | do - | Do - | Jan. 20, 1820 |
| Do do do - - - - - | Azariah Woolworth - | Waterbury, Ct. - | June 15, 1820 |

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|---|---|---|---|
| Do barrels, draw grinding | Thomas Dakin | Harper's Ferry, Va. | July 28, 1820 |
| Do do turning | Sylvester Nash | Do | April 11, 1818 |
| Do do do | Asa Waters | Middlebury, Ms. | Dec. 19, 1818 |
| Do trucks, cutting | Robert Rose | Washington, D. C. | Aug. 6, 1821 |
| Do barrels, scarfing, and rolling the scarf | John Bruce | Springfield, Mass. | Oct. 15, 1824 |
| Do stocks, crooking | John Schirer | Charleston, S. C. | April 12, 1826 |
| Hair, pulling from skins | Nicholas Young | Pennsylvania | June 28, 1803 |
| Do extracting from fur and peltry | Ephraim Cutter | Brattleboro', Vt. | March 1, 1809 |
| Do do do do | Do | Walpole, N. H. | Feb. 12, 1810 |
| Do do do do | John Hollingshead & Daniel Baker | Trenton, N. J. | Aug. 19, 1813 |
| Do separating from skins | Samuel Brooks | New York | April 4, 1822 |
| Do do do fur | John McDonald | Do | Sept. 11, 1827 |
| Do hackling | William Chubb | Do | July 9, 1829 |
| Hammer for cutting and dressing granite | Joseph Richards | Braintree, Mass. | Feb. 20, 1828 |
| Do cast iron | Thomas Jones | Glastonbury, Ct. | July 31, 1828 |
| Do for nails | Charles A. Strong | So. Glastonbury, Ct. | March 3, 1829 |
| Harpoon | Jonathan Sizer, 2d | New London, Ct. | Oct. 16, 1829 |
| Hats, napping | James Long | Maryland | Aug. 5, 1799 |
| Do manufacturing | Ezra Corning, jr. | Connecticut | June 13, 1803 |
| Do do and preparing fur | George Cleveland | Hartford, Ct. | Sept. 9, 1803 |
| Do do chip | Amos D. Allen | Windham, Ct. | May 10, 1804 |
| Do do and bonnets, cutting chips for | Amos D. Allen and Asahel Kelsey | Do | Sept. 5, 1804 |
| Do frame for wool | Richard Gookins | New Hampshire | Jan. 24, 1806 |
| Do planking, and making cloth without yarn | Joseph Pitkin and Timothy Kimball | Hartford, Ct. | Oct. 19, 1807 |
| Do manufacturing without bowing | Roswell Pitkin | East Hartford, Ct. | April 23, 1808 |
| Do caps, &c., application of bark for manufacturing | Sylvester G. Whipple | Hallowell, Mass. | April 17, 1807 |
| Do bowspring for | Daniel Nichols | New Milford, Ct. | March 1, 1809 |
| Do manufacturing | Henry Lainhart, jr. | Baltimore, Md. | July 6, 1809 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Hats, planking | John Gregg | Green county, Pa. | Mar. 14, 1810 |
| Do manufacturing military | Shubael Hoskin | Catskill, N. Y. | April 30, 1810 |
| Do do do | Samuel Tiballs, jr. | Tyringham, Mass. | Dec. 26, 1810 |
| Do planking and felting | Israel Swaim | Haverhill, N. H. | March 7, 1811 |
| Do steaming and hardening | Jonathan Sizer | New London, Ct. | Nov. 6, 1811 |
| Do paper | Joseph Ford and John White | Boston, Mass. | Nov. 25, 1811 |
| Do composition of materials for making | Frederick Messer | Guildhall, Ct. | Jan. 23, 1812 |
| Do bowing wool for | H. S. Holladay and E. G. Griffin | Lyme, Ct. | June 6, 1812 |
| Do forming wool and rorum | John Warely | Albany, N. Y. | Oct. 14, 1813 |
| Do manufacturing from a mixture of clothier's frocks with sheep's wool | Jedediah Carleton | Salem, N. H. | Jan. 21, 1814 |
| Do bowing fur and wool | Edward C. Griffing | Lyme, Ct. | Aug. 10, 1815 |
| Do manufacturing | Jehiel Bryant and Jno. Bryant | Saratoga, N. Y. | Aug. 26, 1815 |
| Do do cemented | Nathan Weston | Reading, Mass. | May 24, 1816 |
| Do blocking | David Beard | Guilford, N. C. | May 28, 1816 |
| Do plank kettle for | Schuyler Fisher | Herkimer co., N. Y. | July 15, 1816 |
| Do manufacturing | Wm. Goodrich | Philadelphia, Pa. | Aug. 20, 1816 |
| Do water-proof stiffening for | Wm. Ruckles | Baltimore, Md. | Nov. 28, 1817 |
| Do stiffening | A. & G. V. Raymond | Do | Feb. 7, 1818 |
| Do manufacturing | Silas Mason | Norfolk, Mass. | Feb. 20, 1819 |
| Do rounder and gauge | Samuel Jones | Bridgeport, Pa. | June 2, 1819 |
| Do water-proof stiffening for | Johan H. Tilge | Washington, D. C. | Sept. 23, 1819 |

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|---|---|---|---|---|
| Do | elastic water-proof | A. Buffum & J. Kelly | Westfield, R. I. | Feb. 17, 1820 |
| Do | napping with rabbit's fur | David Evans | Alexandria, D. C. | Oct. 2, 1820 |
| Do | lathe for stiffening | Henry Raymond | Baltimore, Md. | Nov. 20, 1820 |
| Do | machine for setting up | Joseph Grant | Providence, R. I. | Aug. 11, 1821 |
| Do | weaving grass | Lucy Burnap | Merrimac, N. H. | Feb. 16, 1823 |
| Do | coloring | Joel Taylor | Danbury, Ct. | Nov. 20, 1823 |
| Do | steaming and hardening | Nirum Wildman | Do | April 2, 1824 |
| Do | dying | Israel Taylor | Trenton, N. J. | Aug. 27, 1824 |
| Do | bodies, winding and setting up | Joseph Grant | Providence, R. I. | April 28, 1825 |
| Do | planking kettle for | Ezra Joyce | Brooklyn, N. Y. | June 6, 1825 |
| Do | dying | Morris Burt | Warwick, N. Y. | Nov. 8, 1825 |
| Do | planking wool | L. L. Macomber | Bath, Me. | Dec. 31, 1825 |
| Do | pressing Leghorn, straw, and other | R. Tyler and B. P. Coston | Philadelphia, Pa. | May 23, 1826 |
| Do | finishing | J. Cooper and P. Barnett | Do | May 31, 1826 |
| Do | manufacturing by steam | Wm. Harkins | Wheeling, Va. | Dec. 29, 1826 |
| Do | planking | Robert Bacon | Boston, Mass. | Jan. 31, 1827 |
| Do | cards or jacks for | Joseph C. Seely | Dutchess co., N. Y. | Mar. 15, 1827 |
| Do | bodies, setting up. Improvement on Grant's ma. | Joseph Grant | Providence, R. I. | April 10, 1827 |
| Do | water-proof stiffening for | Stephen Hempstead, jr. | St. Charles co., Mo. | May 25, 1827 |
| Do | bowing, and geering cones | Truman F. Mayhew | Boston, Mass. | Aug. 22, 1827 |
| Do | water-proof stiffening | Stephen Hempstead, jr. | St. Charles co., Mo. | Oct. 26, 1827 |
| Do | manufacturing | George L. Thatcher | Brooklyn, N. Y. | May 31, 1828 |
| Do | carding | Isaac Sanford | Brockley, Pa. | Oct. 10, 1828 |
| Do | bodies | H. F. West and A. H. Stevens | Richland, N. Y. | Oct. 29, 1828 |
| Do | do | Benjamin Lapham & E. Cady | Canaan, N. Y. | April 15, 1829 |
| Do | do manufacturing | A. Clarke & H. Chase | Falmouth, Mass. | June 11, 1829 |
| Do | do | Levi Van Hoesen | Norwalk, Ct. | June 19, 1829 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Hats, stiffening | Jonathan D. Wilson | New York | Aug. 6, 1829 |
| Do scalding and napping | Daniel Baldwin | Ithaca, N. Y. | Oct. 15, 1829 |
| Do bodies, forming | Orlando Root | Montgomery co., N.Y. | Dec. 19, 1829 |
| Hatters' fur machine | Nicholas Young | Pennsylvania | May 14, 1802 |
| Heddles metallic, for weaving | Walter Janes and David Bolles | Ashford, Ct. | April 26, 1815 |
| Hinges, machine for making | David Morse | Massachusetts | June 10, 1803 |
| Do do do friction roller | John Bailey, jun. | Plymouth, Mass. | May 16, 1808 |
| Do cast, or making them of metal in a fluid state | George A. Rogers | Newburyport, Mass. | July 3, 1810 |
| Do elliptical | Mark & Rd. Reeve | Burlington, N. J. | Oct. 31, 1812 |
| Do casting iron | Cyrus Alger | Boston, Mass. | May 18, 1814 |
| Hone, metallic | John Houston | Williamsburg | May 4, 1805 |
| Horn, pressing for combs | Uriah Bailey | West Newbury, Mass. | Feb. 2, 1828 |
| Iron hoop, straightening | Benjamin Seymour | Massachusetts | June 26, 1797 |
| Do casting | William Hancock | - - | Feb. 26, 1799 |
| Do manufacturing | James Butland | Philadelphia, Pa. | Nov 12, 1807 |
| Do do hoop and sheet | Jeremiah H. Pierson | New York | Dec. 24, 1807 |
| Do splaying or flaring | Noah Sutton | Do | April 28, 1825 |
| Do bending for steam boilers | Calvin Post | Springport, N. Y. | Mar. 11, 1828 |
| Do manufacturing malleable | B. B. Howell | Philadelphia, Pa. | Nov. 6, 1828 |
| Do slitting | Jesse Reed | Marshfield, Mass. | April 21, 1825 |
| Ivory, machine for junking | Lynus Pratt and F. Bush | Meriden, Ct. | Feb. 9, 1828 |
| Jenny, vertical | James Matthews | Schenectady, N. Y. | May 2, 1826 |
| Keys, watch | Joseph S. Davis | Providence, R. I. | April 3, 1827 |

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|---|---|---|---|
| Lace, coach | William G. Barnett | Newark, N. J. | Nov. 18, 1825 |
| Do millinet, &c. weaving | Stephen Steward | Cheshire, N. H. | Dec. 31, 1813 |
| Ladles, bent wood handles and socket for white metal | Simeon Stedman | Hartford, Ct. | July 25, 1818 |
| Lathe, uniform turning | Amos Hagget | Middlesex co., Mass. | June 10, 1809 |
| Do turning | William Ross | Chester co., Pa. | July 10, 1809 |
| Do weaver's | John Drummond | New York | July 24, 1813 |
| Do wheel | Benjamin Hoadley | New Haven, Ct. | Dec. 16, 1814 |
| Do pin for turning wire-eyed buttons | William Lawrence | Meriden, Ct. | April 12, 1815 |
| Do for turning rollers for rolling iron, copper, &c. | Samuel Rogers | Bridgewater, Mass. | June 24, 1818 |
| Do do gun barrels | Daniel Dana and Anthony Holmead | Canton, Mass. | Aug. 24, 1818 |
| Do of the power loom | John Whitehead | N. Providence, R. I. | Aug. 30, 1819 |
| Do turning | John Hunt | Shutesbury, Mass. | June 8, 1826 |
| Do do | Jefferson Moore | Leverett, Mass. | Jan. 19, 1828 |
| Do wheelwright's felloe | John Sitton and Jas. A. Black | Pendleton, Columbia, S. C. | May 5, 1828 |
| Do turning | Elijah Putnam | Gardner, Me. | Dec. 9, 1829 |
| Do do | Cotton White and A. Hill | Hadley, Mass. | Mar. 30, 1824 |
| Do for turning and polishing buttons | Lauren Merian | New Haven, Ct. | Jan. 4, 1815 |
| Lead, tinned sheet | Thomas Ewbank | New York | May 30, 1823 |
| Letters and figures, metallic projecting | Lewis Child | New York | Oct. 4, 1817 |
| Linens, mode of glazing and polishing | William Smith | New York | May 9, 1805 |
| Do machine for smoothing | W. P. Smith & J. Odell | Durham, N. H. | July 17, 1810 |
| Locks, balance pendulum | Richard Gaines | Georgetown, D. C. | Mar. 17, 1806 |
| Do Egyptian | A. O. Stansbury | New York | Feb. 11, 1807 |
| Do bank vault | J. Perkins | Newburyport, Mass. | Mar. 23, 1813 |
| Do | William Pie | New York | Aug. 5, 1813 |
| Do | Do | Do | April 28, 1818 |
| Do union | Do | Do | April 28, 1818 |
| Do securing from being picked | George W. Robinson | Attleborough, Mass. | July 17, 1818 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Locks - - - - - - - | Henry & Jac. Day - | New York - - | April 4, 1820 |
| Do and latches - - - - - | H. Durkee, assignee of J. Chittenden - | Burlington, Vt. - | Aug. 12, 1820 |
| Do and bolts for sliding doors - - - | Thomas Whaley - | New York - - | Nov. 2, 1821 |
| Do and latches for doors - - - - | Joel F. Thayer - | Boston, Mass. - | May 18, 1822 |
| Do - - - - - - - | Eb. Leman, jr. - | Do - - | Nov. 28, 1822 |
| Do spiral spring - - - - - | Nathan Reed - | Belfast, Me. - | Mar. 31, 1823 |
| Do - - - - - - - | Richard Wilcox - | New York - - | April 20, 1824 |
| Do spiral and spring latch bolt - - - | Abraham Blauvelt - | New Brunswick, N.J. | Feb. 9, 1825 |
| Do mortice and door - - - - | Turner Whitehouse - | Boston, Mass. - | Sept. 29, 1825 |
| Do - - - - - - - | John Brown & Geo. W. Robinson - | Providence, R. I. - | Feb. 20, 1827 |
| Do - - - - - - - | Truman Bartholomew | New York - - | April 3, 1829 |
| Do knob spiral spring - - - - | James Patterson - | Pittsburg, Pa. - | Oct. 19, 1829 |
| Loom, improvement in the - - - - | Amos Whittemore - | Massachusetts - | Nov. 17, 1796 |
| Do do - - - - | David Grieve - | Do - - | June 5, 1797 |
| Do do for weaving chips - - | Philip Bennet - | Rochester, N. Y. - | Feb. 8, 1806 |
| Do do do - - | Charles Cooper - | Lebanon, Pa. - | Nov. 4, 1808 |
| Do do do girth and cloth - | Robert Lloyd - | Philadelphia, Pa. - | Feb. 8, 1810 |
| Do do - - - - | Walter Janes - | Ashford, Ct. - | Sept. 1, 1810 |
| Do do - - - - | Philo C. Curtis - | Paris, N. Y. - | Nov. 17, 1810 |
| Do do water - - - | Thomas Mussey - | Philadelphia, Pa. - | Mar. 4, 1811 |
| Do do - - - - | Nathaniel Perry - | Boston, Mass. - | Sept. 25, 1811 |
| Do do crank - - - | Ephraim Cutter - | Walpole, N. H. - | Sept. 27, 1811 |
| Do do - - - - | Richard C. Rogers - | Maine - - | Nov. 29, 1811 |

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|---|---|---|---|---|
| Do | do | Richard Crosbie | Newark, N. J. | Jan. 6, 1812 |
| Do | do hand and water | John Thorp | Providence, R. I. | Mar. 28, 1812 |
| Do | do | Asa Campbell | Kingston, Pa. | Mar. 28, 1812 |
| Do | do water | Cyrus Shepard | Philadelphia, Pa. | April 27, 1812 |
| Do | do on Rogers' | Richard C. Rogers | Maine | June 23, 1812 |
| Do | do in the | John Phelps | Manlius | Aug. 27, 1812 |
| Do | do | C. Cooper & G. Shaake | Lebanon, Pa. | Aug. 28, 1812 |
| Do | do | John Heavin | Montgomery co., Va. | Oct. 16, 1812 |
| Do | do domestic and factory | Walter Janes | Ashton, Ct. | Mar. 20, 1813 |
| Do | do | Shepard Briggs | Canaan, Ct. | May 27, 1813 |
| Do | do | Alfred Ware, jr. | Franklin, Mass. | June 18, 1813 |
| Do | do | Thos. R. Williams | Newport, R. I. | July 3, 1813 |
| Do | do | Elisha Robinson | Augusta, Mass. | July 24, 1813 |
| Do | do revolving weaving | John Hess | Hempfield, Pa. | Oct. 2, 1813 |
| Do | do stocking | Eb. Herrick | Stockbridge, Mass. | Oct. 22, 1813 |
| Do | do | Robert Sugden | Boston, Mass. | Dec. 2, 1813 |
| Do | do | John M. Guiramond | Baltimore, Md. | Jan. 7, 1814 |
| Do | warping | Calvin Whitney | Dedham, Mass. | Feb. 1, 1814 |
| Do | | John Heavin | Montgomery co., Va. | Feb. 18, 1814 |
| Do | | Daniel Briggs | Canaan, Ct. | Feb. 19, 1814 |
| Do | water | Brightberry Brown | Albemarle, Va. | Mar. 21, 1814 |
| Do | | J. Coulter & S. Gano | Berkeley co., Va. | April 18, 1814 |
| Do | | Jac. Spinkle | Wythe c. h., Va. | April 27, 1814 |
| Do | | Thomas Siddall | Bristol, Pa. | July 9, 1814 |
| Do | family | Charles Hathaway | Walton, N. Y. | Oct. 11, 1814 |
| Do | | William Wright | Brooklyn, N. H. | Oct. 12, 1814 |
| Do | | Seth Craig | Philadelphia, Pa. | Oct. 18, 1814 |
| Do | stocking | John Brasier, jr. | Canton, Mass. | Oct. 28, 1814 |
| Do | | Salmon Bronson | Kent, Ct. | Nov. 25, 1814 |
| Do | warp suspender | William Squire | New York | Jan. 17, 1815 |
| Do | water, steam, and other power | S. Blydenburgh and Hez. Healy | Worcester, Mass. | Feb. 20, 1815 |

## LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Loom | F. C. Lovell and P. T. Jackson | Boston, Mass. | Feb. 23, 1815 |
| Do | Joseph Jelleffs | Butternuts, N. Y. | May 24, 1815 |
| Do | C. Cooper & G. Shalk | Lebanon, Pa. | May 31, 1815 |
| Do water | Philo C. Curtis | Paris, N. Y. | May 28, 1816 |
| Do | Robert Jackson | Attleboro, Pa. | July 23, 1816 |
| Do upright power | C. Shepard & J. Thorp | Taunton, Mass. | July 25, 1816 |
| Do stocking | Aaron Porter | Queensbury, N. Y. | Aug. 22, 1816 |
| Do | Samuel Chapman | Otsego, N. Y. | Aug. 30, 1816 |
| Do water | Thomas Mussey | New London, Ct. | June 10, 1817 |
| Do | Benjamin Cummings | Townsend, Mass. | Oct. 3, 1817 |
| Do Lint | Francis Hall | Charlestown, Mass. | Nov. 28, 1817 |
| Do | Edmund Warren | New York | Aug. 27, 1818 |
| Do | Lot Forrester | Ridgefield, Ct. | May 15, 1819 |
| Do power | William Gilmour | Smithfield, R. I. | Oct. 28, 1820 |
| Do | Edmund Warren | New York | Dec. 11, 1821 |
| Do domestic | Benjamin Maltby | Do | April 13, 1822 |
| Do | Edmund Warren | Do | May 1, 1822 |
| Do | C. Whiting, J. Goulding, and W. James | Dedham, Mass. | June 25, 1824 |
| Do | Roswell Wilcox | Columbus, O. | Mar. 21, 1825 |
| Do | Jos. Scholfield | Stonington, Ct. | Sept. 9, 1825 |
| Do wire power | John S. Gustin | New York | Feb. 23, 1826 |
| Do carpet | Horace Baker | North Salem, N. Y. | April 14, 1826 |
| Do | Roswell Wilcox | Franklin co., O. | April 21, 1826 |

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| Do | Cornelius Bergen | New York | June 14, 1826 |
| Do | Samuel Chidester | Windham, N. Y. | Sept. 2, 1826 |
| Do domestic | Jer. Hubbard | Jamestown, N. C. | Nov. 6, 1826 |
| Do power | William B. Leonard | Fishkill, N. Y. | May 23, 1827 |
| Do taking up the cloth uniformly | Do | Do | May 23, 1827 |
| Do for weaving figured goods | Horace Baker | North Salem, N. Y. | Aug. 30, 1827 |
| Do sattinet power | Richard Mitchell and N. Butterworth | Troy, Mass. | Mar. 22, 1828 |
| Do check and plaid power | E. Burt, O. D. Boyd, and A. H. Boyd | Manchester, Ct. | Aug. 19, 1828 |
| Do figure cloth | William Levally | Canterbury, Ct. | Mar. 20, 1819 |
| Do power | Amasa Stone | Providence, R. I. | April 30, 1829 |
| Mantle pieces, cast iron | Isaac Deavs | Philadelphia, Pa. | Feb. 21, 1821 |
| Mats, manufacturing from manilla and other grass | Samuel S. Williams | Roxbury, Mass. | Aug. 22, 1828 |
| Metallic substances, cutting | John H. Hall | Harper's Ferry, Va. | Mar. 7, 1827 |
| Moulds, for casting trunnel heads | Eb. Lester | Little Falls | Feb. 12, 1807 |
| Do machine for opening glass blower's | Deming Jarves | Boston, Mass. | Feb. 2, 1821 |
| Mule, carriage for spinning cotton | William Haworth | Providence towns'p Pa. | June 2, 1824 |
| Do for spinning cotton | Thomas Walker | Chester co., Pa. | June 26, 1828 |
| Do drums, preparing grooves | J. Butterworth | Philadelphia, Pa. | Dec. 30, 1828 |
| Do self operating | Ira and A. Gay | Dunstable, N. H. | April 10, 1829 |
| Nails, manufacturing | S. Briggs, sen. and jr. | Philadelphia, Pa. | Aug. 2, 1791 |
| Do do | Thomas Perkins | Pennsylvania | Feb. 7, 1794 |
| Do cutting | Jacob Perkins | Boston, Mass. | Jan. 16, 1795 |
| Do do | Josiah G. Person | New York | Mar. 23, 1794 |
| Do manufacturing | Jared Byington | Connecticut | Jan. 15, 1796 |
| Do and brad cutting | Peter Zacharie | Maryland | May 4, 1796 |
| Do cutting | Peter Cliff | Massachusetts | Nov. 16, 1796 |
| Do do and heading | Isaac Garretson | Pennsylvania | Nov. 16, 1796 |
| Do do | Amos Whittemore | Massachusetts | Nov. 19, 1796 |
| Do manufacturing | John Bigelow | Connecticut | Nov. 19, 1796 |

## LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Nails, cutting and heading | Geo. Chandler | Maryland | Dec. 12, 1796 |
| Do do | Daniel French | Connecticut | Dec. 23, 1796 |
| Do wrought | Do | Do | Dec. 23, 1796 |
| Do heading | Jared Byington | Do | Dec. 23, 1796 |
| Do do | Jason Frost | Do | Dec. 23, 1796 |
| Do do and cutting | James Spence | New York | Feb. 16, 1797 |
| Do do do | Jesse Kersey | Pennsylvania | Feb. 24, 1797 |
| Do cutting and heading | Jonathan Nevill | Massachusetts | Aug. 12, 1797 |
| Do manufacturing | Lester Fling | Vermont | Dec. 19, 1797 |
| Do cutting and heading | Nathan Reid | Massachusetts | Jan. 8, 1798 |
| Do manufacturing | Seth Hart | Connecticut | Jan. 4, 1799 |
| Do do | Jac. Perkins | | Feb. 14, 1799 |
| Do cutting and heading | Fred. Young | New York | Aug. 23, 1800 |
| Do manufacturing | Michael Garber | Virginia | Feb. 20, 1801 |
| Do do from hoops | Nathan Kent | New York | May 1, 1801 |
| Do do from heated rods | Jesse Reed | Massachusetts | June 9, 1801 |
| Do do do | William Leslie | New Hampshire | Nov. 5, 1801 |
| Do cutting | Edward West | Kentucky | July 6, 1802 |
| Do do and heading | Do | Do | July 6, 1802 |
| Do manufacturing | Nathan Fobes | Massachusetts | Aug. 2, 1802 |
| Do heading | Matthew C. Groves | Do | Sept. 3, 1802 |
| Do manufacturing | William Caruthers | Virginia | Dec. 13, 1802 |
| Do do | Oliver Bartlett, Otis Bartlett, & George Bartlett | | Feb. 17, 1803 |

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|---|---|---|---|
| Do do | Lazarus Ruggles | | Oct. 18, 1803 |
| Do do and brads from rolled iron | Joseph Elgar | Brookville, Md. | Dec. 16, 1803 |
| Do cutting and rolling iron | Samuel Rogers and Melville Otis | Massachusetts | Dec. 7, 1803 |
| Do manufacturing | Michael Garber | Staunton, Va. | April 17, 1804 |
| Do do and spikes | Burgess Allison and Richard French | New Jersey | June 8, 1804 |
| Do cutting | Nicholas Boureau | | Aug. 21, 1804 |
| Do do | Fred. Wm. Geyssenhamer | Plymouth, N. H. | Dec. 22, 1804 |
| Do brads and sprigs | Increase Kimball | New Hampshire | May 1, 1805 |
| Do cutting and heading | Jesse Reed | Boston, Mass. | Feb. 22, 1807 |
| Do do | Elisha Bigelow | Baltimore, Md. | April 1, 1807 |
| Do and brad machine | Jordan Dodge | Rutland, Vt. | July 8, 1807 |
| Do wrought | Jonah Nichols | Rhode Island | July, 11, 1807 |
| Do sheathing, casting in moulds | Thomas McIlwhan | Princeton, N. J. | Oct. 6, 1807 |
| Do cutting and heading | Simon Willard | Hudson, N. Y. | Nov. 30, 1807 |
| Do heading | Samuel Rogers | Plymouth, Mass. | Dec. 15, 1807 |
| Do cutting | Jonathan Hicks | Hadley, Mass. | Jan. 28, 1808 |
| Do manufacturing | Joseph J. Meff | Butternuts, N. Y. | June 14, 1808 |
| Do heading | Asa Chandler & Silas Shepherd | Taunton, Mass. | Sept. 16, 1808 |
| Do cutting and rolling, and plating machine | Stephen Couch and Asa Towne | Boston, Mass. | Nov. 21, 1808 |
| Do do and heading, wheel for | Jesse Reed | Kingston, Mass. | April 15, 1809 |
| Do manufacturing | Samuel Wilmot, jr. | New Haven, Ct. | April 21, 1809 |
| Do cutting | Luther Bissel | Hartwick, N. Y. | June 27, 1809 |
| Do manufacturing | Jos. and John Elgar | Yorktown, Pa. | Sept. 1, 1809 |
| Do iron, brass, and composition, casting | Joseph Walworth | New York | Nov. 22, 1809 |
| Do cutting | Briggs R. Reed | Danvers, Mass. | March 8, 1810 |
| Do and brad cutting | Jac. Perkins | Boston, Mass. | July 17, 1810 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Nails eccentric roller machine - - - - | John Fairbanks - | Boston, Mass. - | Aug. 14, 1810 |
| Do cutting and heading - - - - | Briggs R. Reed - | Salem, Mass - | Aug. 18, 1810 |
| Do do - - - - - | Jesse Reed - - | Kingston, Mass. - | Sept. 16, 1810 |
| Do do - - - - - | William Miller - | New York - - | Sept. 26, 1810 |
| Do and brad cutting - - - - - | John P. Sawin and Jac. Skinner - | Roxbury, Mass. - | Feb. 8, 1811 |
| Do and spike machine - - - - | Abiather Eastman - | Norway, Mass. - | April 8, 1811 |
| Do vibrating plates for cutting - - - | Jos. Bernard - | Troy, N. Y. - | April 16, 1811 |
| Do vertical balance wheel for cutting - - | Eb. A. Lester - | Herkimer, N. Y. - | May 8, 1811 |
| Do cutting and heading - - - - | Jesse Reed - - | Kingston, Mass. - | Aug. 14, 1811 |
| Do manufacturing hot heading - - - | Mark Reeve & Richard Reeve - | Philadelphia, Pa. - | Nov. 14, 1811 |
| Do compound lever and parallel shaft for manufacturing | Robert Turner - | Boston, Mass. - | Nov. 25, 1811 |
| Do cutting and heading - - - - | Josiah White - | Philadelphia, Pa. - | Jan. 11, 1812 |
| Do manufacturing - - - - - | Mark and Rd. Reeve | Burlington, N. J. - | Feb. 3, 1812 |
| Do do improved on Newell's - - | Nathaniel Chickering & Dan. Chickering | Dover, Mass. - | March 9, 1812 |
| Do do do - - - | Mark and Rd. Reeve | Burlington, N. J. - | Oct. 31, 1812 |
| Do brass, copper, and composition manufacturing - | George W. Robinson | Attleborough, Mass. | Mar. 17, 1813 |
| Do cutting and heading - - - - | Mark and Rd. Reeve | Philadelphia, Pa. - | April 16, 1813 |
| Do do - - - - - | Henry Lutgen - | Marietta, Pa. - | Sept. 8, 1813 |
| Do manufacturing, improvement on Reeve's, patented February 3d, 1812, October 31st, 1812, and March 16th, 1812 - - - - | Mark and Rd. Reeve | Philadelphia, Pa. - | Sept. 28, 1813 |
| Do cutting - - - - - - | Richard Moore - | Lycoming, Pa. - | Jan. 13, 1814 |

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|---|---|---|---|---|
| Do | heading | Samuel Rogers | Bridgewater, Mass. | Jan. 26, 1814 |
| Do | brad and sprig cylindrical machine | Robert Turner | Boston, Mass | Feb. 21, 1814 |
| Do | cutting, vibrating machine | Eb. A. Lester | Herkimer, N. Y. | April 2, 1814 |
| Do | heading, cut | James Davey | Fairhaven, Ct. | April 7, 1814 |
| Do | brads and spikes, cutting all sizes | Stephen Belknap | Washington, D. C. | April 8, 1814 |
| Do | cutting and heading | Samuel Rogers | Bridgewater, Mass. | Oct. 21, 1814 |
| Do | do | Jesse Reed | Hanover, Mass. | Oct. 22, 1814 |
| Do | manufacturing | Do | Do. | Dec. 16, 1814 |
| Do | do | Nathan Elgar | York, Pa. | June 19, 1815 |
| Do | do | John Elgar | Do | June 21, 1815 |
| Do | cutting and heading | Nathan Elgar | Do | July 25, 1815 |
| Do | manufacturing | Erastus Bartholomew & Wm. Church | Boston, Mass. | Aug. 18, 1815 |
| Do | heading | Henry Sedam | Troy, N. Y. | Sept. 6, 1815 |
| Do | manufacturing | Charles Philips, jr. | Sackett's harbor, N. Y. | Oct. 21, 1815 |
| Do | do | William Waring and Charles Philips | Jefferson, N. Y. | Oct. 21, 1815 |
| Do | cylindrical cutting machine, improvement on his, patented January 16th, 1815 | Jacob Perkins | Newburyport, Mass. | Nov. 1, 1815 |
| Do | cylindrical vibrating machine | Eb. A. Lester | Baltimore, Md. | Dec. 27, 1815 |
| Do | manufacturing | Henry Hays | Philadelphia, Pa. | Feb. 24, 1816 |
| Do | do | Frederick A. Russell | Georgetown, D. C. | Mar. 14, 1816 |
| Do | do | Mark Reeve | Philadelphia, Pa. | June 26, 1816 |
| Do | do | Do | Do | June 27, 1816 |
| Do | do | Timothy Newhall, jr. | Essex co., Mass. | Sept. 7, 1816 |
| Do | cutting | Roswell Noble | Baltimore, Md. | Dec. 17, 1816 |
| Do | do and heading | Isaac Northrop | Oneida co., N. Y. | Jan. 7, 1817 |
| Do | heading | Elisha Bigelow | Massachusetts | Jan. 29, 1817 |
| Do | manufacturing | Heman McCluer | Homer, N. Y. | April 18, 1817 |
| Do | do | Joseph Kells and Jos. Carter | Philadelphia, Pa. | June 10, 1817 |
| Do | do | Melville Otis | Boston, Mass. | Dec. 31, 1817 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Nails, manufacturing sprigs and brads | Roswell Noble | Baltimore, Md. | May 17, 1819 |
| Do do | Daniel Pool | Zanesville, O. | Mar. 22, 1820 |
| Do do | Abel Smith | Do | Mar. 22, 1820 |
| Do do | Thomas Morgan | Hempstead, N. Y. | Sept. 5, 1821 |
| Do do | George Thompson | Philadelphia, Pa. | Sept. 15, 1821 |
| Do do | Lemuel Bolles | New York | Sept. 19, 1822 |
| Do do wrought | Leonard Norcross | Livermore, Me. | May 18, 1824 |
| Do self feeding do | Thomas Morgan | Patterson, N. J. | June 17, 1824 |
| Do and tacks, feeding apparatus | Jesse Reed | Marshfield, Mass. | April 21, 1825 |
| Do cutting and heading | Do | Do | April 21, 1825 |
| Do wrought | Henry Burden | Troy, N. Y. | May 26, 1825 |
| Do manufacturing | Jos. Krauser | Philadelphia, Pa. | Sept. 23, 1826 |
| Do do improvement on Reed's | Thomas Odiorne | Morgan, Mass. | April 3, 1829 |
| Do do and rivets | Samuel G. Reynolds | Bristol, R. I. | April 13, 1829 |
| Do and screws, manufacturing | Stephen J. Gould | Litchfield, Ct. | July 25, 1829 |
| Do manufacturing wrought | Shadrack Davis, jr. | Dartmouth, Mass. | Dec. 8, 1829 |
| Nap, raising on woollen cloth | Samuel Mulliken | Philadelphia, Pa. | Mar. 11, 1791 |
| Do do cloth by a wheel of knives | Samuel G. Door | Albany, N. Y. | Oct. 20, 1792 |
| Do do do | William Burt | | June 23, 1797 |
| Do do do | John Mathes | Barre, Va. | May 27, 1813 |
| Do do do substitute for teasles and cards | Isaac Sanford | Providence, R. I. | Mar. 26, 1814 |
| Do do do | Daniel Merwin and Horace Killogg | Hudson, N. Y. | Oct. 28, 1814 |
| Do do do | T. S. Barnum and E. Smith | Litchfield, Ct. | April 4, 1815 |

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| Do do do - - - - - | William Duncan and John Davidson - | Ackworth, N. H. - | May 29, 1815 |
| Do do do teaseling and brushing - - | John Taylor - | Waltham, Mass. - | Oct. 28, 1815 |
| Do do do and carding - - - | Jos. A. Christie - | Elizabethtown, N. J. | Jan. 24, 1816 |
| Do do do - - - - - | Eli Starr and Nathan Couch - - | Sullivan twnsh. N.Y. | Mar. 20, 1817 |
| Do do do - - - - - | Bishop N. Parsons - | New York - - | April 16, 1817 |
| Do do do shearing ard brushing - - | John J. Bryent - | Andover, N. H. - | Sept. 2, 1818 |
| Do do do - - - - - | Levi & Jed'h Prescott | Pittsburg, Pa. - | Nov. 5, 1818 |
| Do do do and brushing - - - | John Bryan and S. D. Fuller - - | Mendam co., N. J. - | April 4, 1820 |
| Do do do - - - - - | Job Wilkinson - | New York - - | May 12, 1825 |
| Do do do - - - - - | Stephen Marsh - | Fairfax, Vt. - | July 20, 1825 |
| Napping machine, vibrating - - - - | Samuel Duncan - | Northampton, N. Y. - | Jan. 21, 1828 |
| Do do - - - - - | M. R. Norris and L. Phillips - - | Covington, N. Y. - | Mar. 21, 1829 |
| Do do - - - - - | Zachariah Allen - | Providence, R. I. - | Aug. 10, 1829 |
| Nankeen, making yellow and buff color - - | Jos. B. Nones - | Philadelphia, Pa. - | April 28, 1825 |
| Needle and pin- machine - - - - | William F. Hill - | New York - - | Oct. 15, 1814 |
| Nets, gill, for catching fish - - - - | James Drummond - | New York - - | Aug. 27, 1818 |
| Do fly, for horses - - - - - | Henry Horn - | Philadelphia, Pa. - | Sept. 12, 1829 |
| Oakum, making from junk - - - - | Daniel French - | Middletown, Ct. - | Oct. 9, 1805 |
| Do machine for picking - - - - | Michael Morrison - | New Bedford, Mass. | Feb. 14, 1806 |
| Do making - - - - - | Daniel Rider - | New York - - | April 26, 1808 |
| Do picking - - - - - | Ez. Waterhouse - | Gardiner, Me. - | April 24, 1826 |
| Oil cloth, manufacturing - - - - | Isaac Maccauley - | Philadelphia, Pa. - | April 4, 1825 |
| Ornamenting the tops of iron and other railing - - | Paulus Hedl - | New York - - | Feb. 21, 1822 |
| Ornamental borders, casting - - - - | Jos. S. Lewis - | Do - - | Oct. 8, 1824 |
| Do rolls and stamps for book binders - - | David H. Mason - | Philadelphia, Pa. - | Jan. 26, 1826 |
| Do tortoise shell combs - - - | Uriah Bailey - | W. Newbury, Mass. | Feb. 22, 1827 |
| Pans, baking or burning - - - - | Wm. Burtus - | New York - - | Nov. 7, 1820 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Pans, milk, manufacturing | Amos Miner | Camillus, N. Y. | July 20, 1825 |
| Do do of stone ware | Sanford S. Perry | New York | Sept. 9, 1825 |
| Paper moulds | Jno. Carnes | Delaware | April 11, 1793 |
| Do making | John Biddis | Pennsylvania | Mar. 31, 1794 |
| Do do | Cyrus Austin | New Jersey | Dec. 14, 1798 |
| Do do | Robert R. Livingston | New York | Oct. 28, 1799 |
| Do do from currier's shavings | Jos. Condit, jr. | New Jersey | Dec. 28, 1801 |
| Do do corn husks | Burgiss Allison and Jno. Hawkins | Do | Dec. 30, 1802 |
| Do machine for preparing top and swingled tow | Abm. Frost | - | Mar. 19, 1804 |
| Do making | Thos. Langstroth | Bucks co., Pa. | May 1, 1804 |
| Do trimming machine | Parke Shee | Philadelphia, Pa. | Feb. 7, 1807 |
| Do making | Chas. Kinsey | Essex, N. J. | May 8, 1807 |
| Do polishing machine | Wm. Coolidge | Boston, Mass. | April 18, 1808 |
| Do making from sea weed | Sam'l Green | New London co. | Feb. 15, 1809 |
| Do moulds | Phares Barnard | Whitestown, N. Y. | July 7, 1809 |
| Do hot pressing | Francis Bailey | Salisbury, Pa. | July 31, 1809 |
| Do carbonated, for multiplying writing | Jos. Hartshorne | Philadelphia, Pa. | April 20, 1810 |
| Do and calico printing | Leonard Beatty | Wilkesbarre, Pa. | Dec. 28, 1810 |
| Do hangings with satin grounds | Hez. Steele | Hudson, N. Y. | Sept. 8, 1813 |
| Do making from pelts | Jno. McThorndike | - | March 7, 1814 |
| Do cloth, &c., staining and printing | Benjamin Mestayer | New York | June 28, 1815 |
| Do mark of opacity in | John Reich and Edward Star | Philadelphia, Pa. | May 11, 1816 |
| Do vats, heating pulp in | Joseph Robeson | Montgomery, Pa. | May 22, 1816 |

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|---|---|---|---|
| Do water marks | Jac. Perkins and Thomas Gilpin | Philadelphia, Pa. | Dec. 18, 1816 |
| Do making | Thomas Gilpin | Do. | Dec. 24, 1816 |
| Do do | John B. Pignatelle | New York | Dec. 2, 1819 |
| Do do | John Amies | Springfield, Mass. | May 14, 1822 |
| Do hangings, printing | Peter Force | Washington, D. C. | Aug. 22, 1822 |
| Do making | Isaac Burbank | Worcester, Mass. | Sept. 8, 1824 |
| Do polishing | George Bird | Walpole, Mass. | April 11, 1825 |
| Do books, &c., machine for cutting | Joseph Woodhouse | Otsego, N. Y. | May 30, 1825 |
| Do cutting machine | John McClintic and George Faber | Chambersburg, Pa. | Dec. 18, 1825 |
| Do making | Gardner Burbank | Worcester, Mass. | April 12, 1826 |
| Do finishing | Irah White and L. Gale | Newburg, Vt. | Feb. 28, 1827 |
| Do trimming machine | John McClintic | Chambersburg, Pa. | Mar. 31, 1827 |
| Do making | William Magaw | Meadville, Pa. | Mar. 8, 1828 |
| Do do from sea grass | Elisha H. Collier | Plymouth, Mass. | April 15, 1828 |
| Do do hay and straw | William Magaw | Meadville, Pa. | May 22, 1828 |
| Do do by the flat press | Marsden Haddock | New York | July 17, 1828 |
| | Richard Waterman and Geo. W. Annis | Providence, R. I. | Aug. 30, 1828 |
| Do do top press roller for | Mason Hunting | Waterbury, Mass. | Oct. 20, 1828 |
| Do do | Andrew Sprague and Nich. A. Sprague | Fredonia, N. Y. | Oct. 31, 1828 |
| Do do from rags, whitening straw | John W. Cooper | Wash'ton Towns'p, Pa. | Feb. 7, 1829 |
| Do cylindrical machine | Isaac Sanderson | Milton, Mass. | April 18, 1829 |
| Do making agitator | Reuben Fairchield | Trumbull, Con. | May 4, 1829 |
| Patterns for moulding spikes, bolts, &c. | J. and C. Sewall | Bath, Me. | Mar. 25, 1829 |
| Pencil cases, ever pointed | Joseph Saxton | Philadelphia, Pa. | April 11, 1829 |
| Do do | William Jackson | Do | July 27, 1829 |
| Picker, wool | Michael Morrison | Boston, Mass. | Aug. 15, 1811 |

## LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Picker, wool and cotton | Ephraim Raymond | Norton, Mass. | Jan. 18, 1812 |
| Do do | Beriah Brown | Exeter, R. I. | Sept. 2, 1822 |
| Do tube used in weaving | Benjamin Holbrook | Providence, R. I. | Feb. 21, 1826 |
| Do cotton | James Pennell and Haber Maxon | Barbourville, Va. | Oct. 10, 1828 |
| Pins, making of wire at one operation | Moses L. Morse | Boston, Mass. | Aug. 22, 1814 |
| Do do | Henry Weston | Philadelphia, Pa. | July 23, 1823 |
| Do do | Lemuel W. Wright | Manchester, England | Mar. 12, 1825 |
| Pipes or tubes, casting | Willard Badger | Boston, Mass. | Dec. 26, 1808 |
| Do making leaden | Richard Wall | Waterbury, Con. | July 5, 1822 |
| Plane irons, scythes, &c. | Daniel Pettibone | Philadelphia, Pa. | May 6, 1813 |
| Do carpenter's | R. Welford and J. H. Deas | Do | May 14, 1821 |
| Do irons | Per. Williamson | Baltimore, Md. | Sept. 9, 1825 |
| Do revolving timber | Daniel M. Smith | Warwick, Mass. | Dec. 28, 1826 |
| Do irons | Charles E. West | Colchester, Con. | Jan. 10, 1827 |
| Do stocks, cast iron | Hazard Knowles | Do | Aug. 24, 1827 |
| Do sliding | Jonathan Sparrow | Portland, Me. | Dec. 26, 1827 |
| Do groove | S. Longanecker and Chas. Myers | Lancaster, Pa. | Feb. 7, 1829 |
| Plates for pressing woollen cloths | Volkert Vedder | Amsterdam, N. Y. | Feb. 6, 1811 |
| Do horizontal, for making holes | Benjamin King | Washington, D. C. | May 29, 1817 |
| Do and sheets made from iron | Evan J. Ellicott | Baltimore, Md. | May 28, 1818 |
| Do metallic for engraving and printing | David H. Mason | Philadelphia, Pa. | May 17, 1822 |
| Polisher, cylindric | Eb. Stowell | Middlebury, Vt. | Aug. 20, 1813 |

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|---|---|---|---|
| Polishing wheel, buff | Aaron Broad | Litchfield, Con. | June 6, 1814 |
| Do powders for metal | Holmes Greenwood | Providence, R. I. | Jan. 28, 1818 |
| Do hard and soft substances | Benjamin Green | Hartford, Vt. | Mar. 27, 1827 |
| Printing and forming colored figures on hard substances | John Edwards | New York | Aug. 22, 1816 |
| Pulleys for cogs | William Shotwell | New Jersey | June 24, 1800 |
| Punches for types, &c. | Francis Baily | Philadelphia, Pa. | Jan. 29, 1791 |
| Do making holes | John Sarchet | Do | April 2, 1822 |
| Do for copper | William Ballard | Boston, Mass. | Dec. 6, 1827 |
| Do for straps | Charles Angel | Philadelphia, Pa. | July 15, 1829 |
| Do power press | George Darracot | Boston, Mass. | July 21, 1829 |
| Quills, machine for winding | Francis Jones | New York | May 23, 1821 |
| Rags, machine for preparing | Benjamin Cox | Northampton | Mar. 28, 1818 |
| Do do cutting | Moses Y. Beach | Springfield, Mass. | Oct. 11, 1828 |
| Do do cleaning | Wm. Debit | E. Hartford, Con. | Jan. 13, 1829 |
| Ramrods | Charles C. Barstow | Exeter, N. H. | Nov. 21, 1820 |
| Razor, machine for grinding | Christian Veltenair | Virginia | Aug. 10, 1804 |
| Do manufacturing | John Brown | Providence, R. I. | June 28, 1824 |
| Reeds for weavers | Jeptha A. Wilkinson | Otsego, N. Y. | July 3, 1816 |
| Do do metallic | Peter F. Herbin | Patterson, N. J. | Nov. 15, 1821 |
| Reeding and fluting strait or spiral | John January | Greenville, Ky. | Mar. 3, 1829 |
| Reticules | William Winning | New York | Nov. 7, 1821 |
| Ribbons, machine for smoothing and glossing | Charles Cromwell | Do | Jan. 27, 1817 |
| Rivets, machine for making | Isaiah Jennings | Do. | April 25, 1808 |
| Do and bolt cutter by lever purchase | Holly Seely | Unadilla, N. Y. | May 12, 1825 |
| Rollers for rolling iron, casting | Cyrus Alger | Boston, Mass. | Mar. 30, 1811 |
| Do impressed, for making knives and forks, &c. | John Owings | Baltimore, Md. | Jan. 25, 1814 |
| Do covering for sizing | Everett Williams | Stratford, N. H. | April 13, 1822 |
| Do calender, heating for glazing | J. Bringhall and T. Keyes, jr. | West Boylston, Mass. | April 1, 1826 |
| Rolling mill machinery | Benjamin Seymour | Massachusetts | June 26, 1797 |
| Do iron | Henry Abbett | Pennsylvania | May 4, 1802 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Rolling iron for nails - - - - - | Jesse Reed - - | Massachusetts - | July 15, 1802 |
| Do and slitting mill - - - - | Isaac Pierson - | New York - - | Dec. 24, 1807 |
| Do and moulding iron - - - - | Josiah White - | Philadelphia, Pa. - | Mar. 14, 1810 |
| Do iron for ship bolts - - - - | Clement Rentgen - | West Chester, Pa. - | June 27, 1810 |
| Do machine for reducing metal to bars or rods for making wire round or square - - | Josiah White - | Philadelphia, Pa. | May 15, 1812 |
| Do bar iron edgeways - - - - | George Ellicott - | Baltimore, Md. - | Sept. 20, 1816 |
| Do metallic tubes - - - - | Cyrus Eastman - | Hillsborough, N. H. | April 16, 1818 |
| Do mill for sheet iron, &c. - - - | Samuel Rogers - | Bridgewater, Mass. - | June 24, 1818 |
| Do iron - - - - - - - | Abm. S. Valentine - | Bellefonte, Pa. - | Jan. 3, 1827 |
| Rope making - - - - - - - | Michael Wigglesworth | Massachusetts - | June 26, 1799 |
| Do yarn, spinning - - - - - | John Pittman - | Rhode Island - | Dec. 24, 1799 |
| Do and twine machine - - - - | Stephen Gorham - | Massachusetts - | Feb. 4, 1800 |
| Do yarn, spinning - - - - - | Nathaniel Cutting - | Washington, N. Y. - | May 25, 1806 |
| Do making - - - - - - | John Sellers and Andrew Bartle - | Alexandria, D. C. - | May 5, 1807 |
| Do yarn, spinning and winding - - - | Christian Berg and Peter Schermerhorn, jr. | New York - - | July 2, 1811 |
| Do and twine machine - - - - | John Heavin - | Montg'y c. h., Va. - | Aug. 3, 1813 |
| Do yarn machine, called the effeminate spinner - | John Pittman - | Medford, Mass. - | Mar. 14, 1817 |
| Do readies, gauge plate for making - - | Robert Graves - | Boston, Mass. - | Dec. 31, 1819 |
| Do making - - - - - - | Eleazer Crain - | Springfield, Vt. - | Jan. 10, 1820 |
| Do layer, combined jack and breastwork - - | David Myerle - | Philadelphia, Pa. - | Mar. 3, 1827 |
| Do reeding machine - - - - | A. Boring and Wm. W. Jones - - | Thornville, Ohio - | May 5, 1828 |

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|---|---|---|---|
| Rope making | Stephen Hills, 2d | Glastonbury, Ct. | June 11, 1829 |
| Roping or roving flax and hemp | George Brown | Seaghticoke, N. Y. | June 19, 1806 |
| Do do wool and cotton | Oliver Barrett, jr. | Do | Dec. 3, 1811 |
| Do do spinning machine | Gideon Cornell | Rensselaer co., N. Y. | July 22, 1812 |
| Do do and spinning cotton and wool | John Brown | Providence, R. I. | Aug. 8, 1812 |
| Do do and spinning wool | Samuel Lerned | Watertown, Mass. | Aug. 3, 1815 |
| Do do machine for cotton | William Bryant | Davidson co., Tenn. | April 29, 1816 |
| Do do twisting and winding cotton | David Grieve | Providence, R. I. | Sept. 18, 1818 |
| Do do and spinning wool and cotton | John Brown | Do | July 22, 1819 |
| Do do cotton | Paul Moody | Boston, Mass. | Jan. 19, 1821 |
| Do do do and wool by hand | John Brown | Providence, R. I. | Jan. 23, 1821 |
| Do do do | Paul Moody | Boston, Mass. | Feb. 19, 1821 |
| Do do do | Silas Shepard & Cromwell Dean | Taunton, Mass. | Mar. 23, 1821 |
| Do do do | Asa Arnold | N'th Providence, R. I. | Jan. 21, 1823 |
| Do do and spinning wool and cotton | Z. Knox & W. Hoskins | Lowville, N. Y. | Aug. 16, 1824 |
| Do do do do do | A. Patterson and F. Burdock | Delaware co., N. Y. | Sept. 29, 1824 |
| Do do cotton, slack, thread, &c. | Sidney Whiting | Franklin, Mass. | Nov. 17, 1824 |
| Do do do and wool | William Whitehead | Patterson, N. J. | April 11, 1825 |
| Do do and spinning wool and cotton | Francis Burdick | Kortwright, N. Y. | May 30, 1825 |
| Do do do do | William Carmichael | Sand Lake, N. Y. | June 10, 1826 |
| Do do and twisting cotton | Wm. Whitehead, jr. | Patterson, N J. | June 14, 1826 |
| Do do and spinning wool | J. R. & J. B. Wheeler | Galway, N. Y. | Aug. 28, 1826 |
| Do do cotton | Gilbert Brewster | Poughkeepise, N. Y. | Mar. 28, 1827 |
| Ruling books and paper | Mark J. Brunell | - - - | Nov. 16, 1796 |
| Do paper | Richard Robotham | New York | Oct. 10, 1801 |
| Do machine, cylindrical paper | John Fairbanks | Massachusetts | Nov. 30, 1803 |
| Do do | Daniel Brewer | Pennsylvania | April 22, 1803 |
| Do do cylindrical | John Fairbanks | Boston, Mass. | April 21, 1808 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Ruling machine | Asa Spencer | New London, Ct. | Feb. 7, 1812 |
| Do do for paper | Lewis Henry | Bellows Falls, Vt. | Aug. 24, 1816 |
| Do do double | Tim. Newhall | Lynn, Mass. | Dec. 26, 1816 |
| Do do called the revolving ruler | Lemuel Hedge | Windsor, Vt. | Mar. 3, 1817 |
| Do do hand | G. Strowhuver and Frederick Sauxay | Cincinnati, O. | Sept. 1, 1817 |
| Do do | Richard Willcox | New York | Sept. 4, 1823 |
| Do do | George Crosbie | Augusta, Me. | Jan. 21, 1825 |
| Do do | C. Lanuza | New York | Aug. 13, 1828 |
| Sail duck, manufacturing | Joseph Chapman | Frankfort, Pa. | July 9, 1821 |
| Do cloth do | James Richards | Patterson, N. J. | Aug. 10, 1821 |
| Sample box | George P. Oakley | Poughkeepsie, N. Y. | Nov. 25, 1818 |
| Saw, circular | Zach. Cox | Georgia | Mar. 14, 1794 |
| Do crosscut | Thomas Cahoon | Cazenovia, N. Y. | April 11, 1808 |
| Do whip, application of the | Samuel Barber & Nehemiah U. Tompkins | New York | June 1, 1808 |
| Do hand | Isaiah Jennings | Do | April 17, 1809 |
| Do wood | James Hamilton | Brookfield, Mass. | July 31, 1809 |
| Do whip, driving | Joseph Coppinger | Frederick, Ga. | Mar. 19, 1810 |
| Do horizontal, vertical, or radial | Adam Stewart | Baltimore, Md. | July 5, 1817 |
| Do circular | William F. Hill | New York | July 11, 1818 |
| Do do for clapboards | Robert Eastman and J. Jaquith | Brunswick, Mass. | Mar. 16, 1820 |
| Do do | John Brown | Boston, Mass. | Aug. 13, 1823 |
| Do do | Sylvanus Bonnell | Chatham, N. J. | Sept. 26, 1823 |

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| Do for cutting veneers | R. B. Richardson | Philadelphia, Pa. | Oct. 6, 1824 |
| Do compound rotary | Adam Stewart | Boston, Mass. | Sept. 29, 1825 |
| Do circular | William Kendall, jr. | Kennebec, Me. | May 18, 1826 |
| Do vertical for fret work | E. & C. Boothe | Southbury, Ct. | April 22, 1826 |
| Do circular re-acting | William Avery | Cazenovia, N. Y. | Dec. 8, 1826 |
| Do two-edged | Moses Cass & Aaron Bull | Caroline, N. Y. | Aug. 31, 1827 |
| Do cylindrical | Lewis B. Bump | Wareham, Mass. | Aug. 29, 1828 |
| Do circular, for clapboards | Jona. Fudder | Gorham, Me. | Oct. 11, 1828 |
| Do do revolving | Tyler Howe | Spencer, Mass. | Feb. 19, 1829 |
| Do hanging and straining | Levi Chapin | Walpole, N H. | Oct. 13, 1829 |
| Saw-belt or band | Adam Stewart | Baltimore, Md. | July 5, 1817 |
| Saw-frame, armed | Nathaniel Sperry | Nashville, Tenn. | June 18, 1828 |
| Saw-plates | James Cloud | Chester, Pa. | Sept. 8, 1824 |
| Saw setting machine | John Somner | Franklin, Pa. | Nov. 16, 1812 |
| Do do do and using saw teeth | John Russell | Brooke, Va. | Oct. 14, 1815 |
| Do do do | Webb Hart | Camden, S. C. | Dec. 7, 1821 |
| Do do do | Joseph Beach | Middletown, Ct. | Oct. 28, 1822 |
| Do do do | David C. Jordan | New York | Dec. 2, 1822 |
| Do do do | Rufus Grundy | Do | Dec. 21, 1822 |
| Do do do | Joseph H. Schreiner | Philadelphia, Pa. | Aug. 19, 1826 |
| Do set spring | John Boggs | Do | Oct. 4, 1827 |
| Do do gauge | Ira Hatch | Westford, Vt. | Oct. 12, 1829 |
| Saw sharpener | Solomon Morse | Sempronius, N. Y. | April 26, 1824 |
| Screws, machine for cutting | David Wilkinson | Rhode Island | Dec. 14, 1798 |
| Do iron, casting in moulds | E. Lester | Herkimer, N. Y. | May 10, 1805 |
| Do cutting wood | Abel Stowell | Worcester, Mass. | July 19, 1809 |
| Do casting metal | John Nicholson | Herkimer, N. Y. | April 28, 1810 |
| Do cutting wooden | Robert Hancok, sen. & Edward W. Carr | Philadelphia, Pa. | Mar. 1, 1811 |
| Do machine for cutting | Elisha Hassard & Josiah White | Do | May 15, 1812 |

## LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Screws, machine for heading wood - - - | Abel Stowell - - | Worcester, Mass. - | Feb. 4, 1813 |
| Do do making the shanks of - - | Jacob Perkins - | Newburyport, Mass. | Mar. 23, 1813 |
| Do do cutting - - - - - | Jacob Sloat - - | Ramapo Cove, N. Y. | May 4, 1813 |
| Do do finishing the heads of wood or iron - | Abel Stowell - | Worcester, Mass. - | July 15, 1813 |
| Do do cutting - - - - - | John Hames - - | Richmond, Va. - | Dec. 30, 1813 |
| Do do making - - - - - | Abner Burnham and Thomas S. Barnum - | - - - - - Sharon, Ct. - - | Dec. 31, 1813 |
| Do manufacturing - - - - - - | James Gleason - | Philadelphia, Pa. - | Mar. 7, 1814 |
| Do ramrods, knives and forks, &c., manufacturing - | Aaron Broad - | Litchfield, Ct. - | June 6, 1814 |
| Do cutting by a circular cutter - - - | Joshua Witherle - | Boston, Mass. - | Feb. 9, 1815 |
| Do machine for slitting and finishing the heads of - | Do - | Do - | Mar. 7, 1815 |
| Do do cutting and heading - - - | John Mason - - | - - - - - | Mar. 30, 1815 |
| Do manufacturing - - - - - | Phineas Dow and Daniel Treadwell - | Boston, Mass. - | Aug. 8, 1817 |
| Do machine for cutting wood and metal - - | John Andrews - | Dinwiddie co., Va. - | Aug. 11, 1817 |
| Do manufacturing right and left for bedsteads - | Thomas B. Smith - | Troy, N. Y. - | Oct. 11, 1824 |
| Do punch and rivet cutter - - - - | Levi C. Judson - | Waterville, N. Y. - | Nov. 18, 1825 |
| Do manufacturing wooden - - - - | James Lynch - | Pulaski, Tenn. - | Dec. 12, 1825 |
| Do machine for cutting wooden - - - | Stephen Treadwell - | Weston, Ct. - - | May 22, 1828 |
| Do arranging machinery for making - - | Lemuel W. Wright - | London, England - | Dec. 6, 1828 |
| Do zigzag - - - - - - - | Joseph Woodhull - | Rochester, N. Y. - | Dec. 31, 1828 |
| Scythes, manufacturing - - - - - | Luther Dudley - | Sutton, Mass. - | May 27, 1828 |
| Do do - - - - - - | Benj. & John Tyler - | Claremont, N. H. - | Feb. 1, 1817 |
| Do do - - - - - - | Ephraim Kimball, jr. | Fitchburg, Mass. - | Jan. 17, 1822 |
| Do do - - - - - - | Charles McNamara - | Northbridge, Mass. - | Jan. 30, 1822 |

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|---|---|---|---|
| Do machine for finishing | Do | Do | Jan. 31, 1823 |
| Do horse | John A. Wadsworth | Portsmouth, R. I. | July 3, 1824 |
| Do sneath | Silas Lamson | Sterling, Mass. | Dec. 29, 1828 |
| Do rifle for sharpening | Beriah Swift | Washington, N. Y. | June 11, 1829 |
| Seals, watch | S. Davis, H. P. Babbitt, & B. P. Grinnell | Providence, R. I. | Mar. 3, 1827 |
| Seine, mode of using the fishing | Philip Groff | Little York, Pa. | Dec. 16, 1809 |
| Do for taking shad | Samuel May | Columbia, Pa. | Jan. 11, 1812 |
| Shearing wool and cloths | Samuel Kellogg | Vermont | Jan. 31, 1795 |
| Do woollen cloths | Liberty Stanley | Massachusetts | June 25, 1803 |
| Do woollen cloths, &c. | Friend B. Kellogg | Marlborough, Mass. | Nov. 22, 1805 |
| Do cloth | Beriah Swift | Washington, N. Y. | May 25, 1806 |
| Do do | Russell Dorr | Kinderhook, N. Y. | May 8, 1807 |
| Do do | Enoch Burt | Princeton, N. J. | June 23, 1807 |
| Do do | Simpson Stewart, Eb. Hovey & James Henderson | Pittstown, N. Y. | June 21, 1808 |
| Do wool | Eb. Stowell | Worcester, Mass. | April 26, 1808 |
| Do cloth | David Dewey | Poultney, Vt. | June 27, 1809 |
| Do do | Eben. Sprague | Danbury, Ct. | May 9, 1810 |
| Do do | Heman Matthews | Delaware | May 15, 1810 |
| Do do | Beriah Swift | New York | May 24, 1810 |
| Do do | Ezra Wilmarth | Romney, Mass. | Feb. 28, 1811 |
| Do do | Benjamin Cummings | Palmer, Mass. | Mar. 2, 1811 |
| Do do | George C. Kellogg | New Hartford, Ct. | Mar. 4, 1811 |
| Do do | Jesse Molleneux | Hempstead, N. Y. | April 28, 1811 |
| Do do | Eleazer Hovey | Canaan, N. Y. | May 2, 1811 |
| Do do | William Stillman | Westerly, R. I. | June 11, 1812 |
| Do do | Stephen Treadwell | Redding, Conn. | April 27, 1812 |
| Do do | Walter Kennedy | Frankfort, Ky. | June 12, 1812 |
| Do and laying the nap of cloth | Lemuel Dickerman | Scaghticoke, N. Y. | July 18, 1812 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Shearing cloth - - - - - - - | Gershom Bostwick - | Brookfield, Ct. - | Sept. 28, 1812 |
| Do do - - - - - - - | George Booth - | Poughkeepsie, N. Y. | Oct. 13, 1812 |
| Do machine, horizontal - - - - | Thomas Blanchard - | Sutton, Mass. - | May 4, 1813 |
| Do do - - - - - - | Silas Hills - - | Hudson, N. Y. - | Oct. 22, 1813 |
| Do do zigzag - - - - | Edmmund Durrin - | Weatherfield, Vt. - | Jan. 21, 1814 |
| Do cloth - - - - - - - | Isaac Sanford - | Providence, R. I. - | Mar. 26, 1814 |
| Do do - - - - - - - | Beriah Swift - | Washington, N. Y. - | July 1, 1814 |
| Do do - - - - - - - | C. H. Orth & Frederick Strohn - | Steubenville, O. - | Oct. 11, 1814 |
| Do machine, vibrating - - - - | David Dewey - | Poultney, Vt. - | Dec. 7, 1814 |
| Do do - - - - - - | William Stillman - | Westerly, R. I. - | April 28, 1815 |
| Do cloth - - - - - - - | Horace Osborne and William L. Fraser - | - - - - | April 25, 1816 |
| Do do - - - - - - - | John D. Smith - | Fredericktown, Md. | May 24, 1816 |
| Do do revolving shears for - - - | James Collins - | Anson, Me. - | June 10, 1817 |
| Do do - - - - - - - | Eliphalet Remington | Frankfort, N. Y. - | Aug. 13, 1817 |
| Do do - - - - - - - | William Stillman - | Westerly, R. I. - | Jan. 17, 1818 |
| Do do - - - - - - - | David Dewer - | Rutland co., Vt. - | Mar. 16, 1818 |
| Do do - - - - - - - | Seth Parsons - | Hosack, N. Y. - | Mar. 2, 1819 |
| Do do - - - - - - - | Elihu Hotchkiss and Aaron Jaque - | Brattleborough, Vt. - | Dec. 15, 1819 |
| Do do - - - - - - - | Zach. Cary - - | Oxford, Me. - | Feb. 20, 1821 |
| Do do - - - - - - - | Ezra Heald - - | Norridgewock, Me. | Dec. 4, 1822 |
| Do machine, or shears with curved edges - - | Samuel Fry - - | New York - - | Nov. 20, 1823 |
| Do cloth - - - - - - - | Beriah Swift - | Washington, N. Y. - | Feb. 7, 1824 |

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|---|---|---|---|
| Do do | James Collins | Anson, Me. | Mar. 6, 1827 |
| Do do | Isaac Kellogg and George C. Kellogg | New Hartford, Ct. | April 7, 1828 |
| Do do shears for | Samuel A. Britt | Cazenovia, N. Y. | Aug. 10, 1829 |
| Do nap from woollen cloth | Merritt Hurd | Augusta, N. Y. | Dec. 7, 1829 |
| Do cloth | William Hovey | Worcester, Mass. | Dec. 17, 1824 |
| Sheaves for blocks, &c. | E. C. Toppan | Essex co., Mass. | Feb. 12, 1810 |
| Do rollers for | Mark Laighton | Portsmouth, N. H. | Mar. 14, 1810 |
| Do and pulling blocks, moulding and casting | Henry Worrall | New York | June 12, 1816 |
| Do moulding bushes or cogs for | Thomas P. Walworth | Patterson, N. J. | July 15, 1816 |
| Do for blocks | Nathaniel H. Lewis | New York | Aug. 26, 1818 |
| Do anti-friction, bush for | James Rudder | Norfolk, Va. | Feb. 6, 1819 |
| Do cast iron for shipping | Francis Seymour | Plymouth, Mass. | Dec. 29, 1827 |
| Shot manufactory | Phineas Daniel | Philadelphia, Pa. | Mar. 31, 1804 |
| Do pressure | Thomas Bruff | Washington, D. C. | Oct. 5, 1808 |
| Do manufacturing | John W. Pope | Philadelphia, Pa. | July 17, 1809 |
| Do do and bullets | Peregrine Williamson | Baltimore, Md. | May 12, 1813 |
| Do do by pressure | Thomas Bruff | Washington, D. C. | June 4, 1813 |
| Do do tubulated cylinder for | James M. Ludlum | New York | Aug. 3, 1813 |
| Do and balls, casting of lead | Daniel Pettibone | Philadelphia, Pa. | Nov. 10, 1819 |
| Do screening table | John W. Honey | Herculaneum, Mo. | Feb. 10, 1825 |
| Shovels, swagging or setting | Upton Reid | Joppa × Roads, Md. | Aug. 31, 1810 |
| Do sacket and sand | Jona. Righter | Downingtown, Pa. | July 23, 1811 |
| Do sheet iron for barns | John Brower | Berks co., Pa. | Feb. 19, 1819 |
| Do and spades | James Wood | Philadelphia, Pa. | Feb. 10, 1825 |
| Do making | Oliver Ames | Easton, Mass. | Mar. 5, 1827 |
| Do scythes, spades, &c. of cast steel and iron | Elizabeth H. Bulkley | Colchester, Ct. | Feb. 28, 1828 |
| Shuttles, spindle spring | Samuel Cranston | Cumberland, R. I. | Mar. 20, 1822 |
| Do mode of throwing | John Goulding | Dedham, Mass. | Aug. 24, 1827 |
| Do for tying knots | John Thrope | Providence, R. I. | Nov. 20 1828 |
| Sifter wire, rolling | Nathan Sellers | Philadelphia, Pa. | Aug. 16, 1820 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Sifter, revolving coal | Thos. Borbridge and Anson Martin | Ringston township, Pa. | Dec. 30, 1826 |
| Silk, removing spots in | Aaron & John Hall | Boston, Mass. | Dec. 31, 1817 |
| Do staining and printing | T. & W. Bryan | New York | June 29, 1821 |
| Slitting mill | Tim. Allen | Plymouth, Mass. | April 5, 1826 |
| Snuff cutter or grater | J. B. Partarrien | New York | Nov. 30, 1812 |
| Spades and shovel handles | Harlow Risley | Glastonbury, Ct. | May 1, 1829 |
| Do pronged | Wm. B. Horton | Middletown, Ct. | June 15, 1829 |
| Spectacles, and single eye glasses | S. Newton | Washington, D. C. | Dec. 22, 1827 |
| Do spiral spring | Samuel Babcock | Middletown, Ct. | April 3, 1829 |
| Speeder, double, for winding cotton | William Hines | Coventry, R. I. | Feb. 6, 1819 |
| Do do | Paul Moody | Boston, Mass. | April 3, 1819 |
| Do do No. 1 | Jonathan Fish | Medway, Mass. | Dec. 7, 1820 |
| Do do " 2 | Do | Do | Do |
| Do do " 3 | Do | Do | Do |
| Do do " 4 | Do | Do | Do |
| Do do " 5 | Do | Do | Do |
| Do do combination of improvements on the | Do | Do | Do |
| Do do | Paul Moody | Waltham, Mass. | Dec. 30, 1820 |
| Do do | Do | Boston, Mass. | Feb. 19, 1821 |
| Do counter twisting | George Danforth | Norton, Mass. | Sept. 2, 1824 |
| Do eclipse for cotton roping | Gilbert Brewster | Poughkeepsie, N. Y | April 18, 1829 |
| Spindles, diminishing the friction of | R. R. Livingston | Clermont, N. Y. | Aug. 4, 1791 |
| Do for spinning | Asa Jillson | Dorchester, Mass. | May 27, 1815 |
| Do and flyer | Do | Roxbury, Mass. | July 17, 1815 |

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|---|---|---|---|
| Do and bobbin for spinning cotton | Wm. B. Leonard | Fishkill, N. Y. | Jan. 9, 1819 |
| Do preventing friction on | J. G. Sholz | Pickaway township, O. | July 6, 1827 |
| Do for spinning cotton, &c. | Benj. Brundred | Oldham, N. J. | July 14, 1827 |
| Spinning machine, for flax and hemp | George Parkinson | Philadelphia, Pa. | Mar. 17, 1791 |
| Do do for cotton | William Pollard | Do | Dec. 30, 1791 |
| Do do and twisting thread | Obadiah Herbert | Mount Pleasant, N.J. | Jan. 28, 1792 |
| Do do hemp and flax | Nathaniel Foster | Flemingsbury, Ky. | June 28, 1809 |
| Do do called the Delaware spinner | Jac. Alricks | Wilmington, Del. | Oct. 11, 1809 |
| Do do for flax, &c. | Alpheus Webster | Greene co., N. Y. | Mar. 31, 1810 |
| Do do called the domestic spinner | Eb. Hearrick | Albany, N. Y. | Aug. 17, 1810 |
| Do do family cotton | John G. Baxter | Philadelphia, Pa. | June 22, 1811 |
| Do do called the pleasant spinner | Daniel Read | Brookfield, N. Y. | Sept. 10, 1811 |
| Do and drawing wool | William Humphreys | Humphreysville, Ct. | Oct. 4, 1811 |
| Do or roving flax, &c., cylindrical frame for | William Griffin | New York | Jan. 11, 1812 |
| Do cotton, wool, flax, &c. | G. Brewster, G. Trumbull, & J. Mathes | Barre, Vt. | Jan. 16, 1812 |
| Do flax, &c. whirl or regulator for | Chauncey Crafts | Woodbury, Ct. | Feb. 10, 1812 |
| Do do reeling and spooling | Noel Jones | Madison co., N. Y. | Mar. 14, 1812 |
| Do cotton, water frame for | Stephen Clements | Hartford, Vt. | Mar. 16, 1812 |
| Do machine, portable | Burgess Allison | Philadelphia, Pa. | April 27, 1812 |
| Do do called the linen spinner | Sylvanus Baldwin & Elisha Town | Vermont | May 6, 1812 |
| Do do for cotton | Nehemiah Giles | Fitchburg, Mass. | Nov. 19, 1812 |
| Do do called the linen spinner | Alpheus Webster | Greene co., N. Y. | Dec. 21, 1812 |
| Do do do perpetual wool spinner | Burgess Allison | Burlington, N. J. | Mar. 3, 1813 |
| Do and roving machine | Samuel Comstock and Moses Pike | Harrisburg, Pa. | April 15, 1813 |
| Do machine, called the farmer's wool spinner | John Brown | Providence, R. I. | May 12, 1813 |
| Do do for cotton | L. Bissell, J. Hinman, L. C. Hinman, & Benoni Gains | Hartwick, N. Y. | June 19, 1813 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Spinning machine (patented June 28th, 1809) - | Nathaniel Foster - | Flemingsbury, Ky. - | July 8, 1813 |
| Do hair of neat cattle - - - - | Wm. Shotwell and Arthur Kimball - | New York - - | Nov. 4, 1813 |
| Do billy and jenny - - - - | Ebenezer Smith - | Paris, N. Y. - | Mar. 23, 1814 |
| Do machine, portable - - - - | Burgess Allison - | Burlington, N. J. - | June 28, 1814 |
| Do do for hemp and flax - - - | John F. Chappins - | New York - - | Nov. 8, 1814 |
| Do do called the family spinner - - | John Brown - | Providence, R. I. - | Feb. 24, 1814 |
| Do cotton - - - - - | L. Bissell, L. C. Hinman & S. Willson - | Otsego, N. Y. - | July 17, 1815 |
| Do machine, called the linen spinner - - | Sylvanus Baldwin - | Boston, Mass. - | Aug. 18, 1815 |
| Do do do family wool - - | W. Ayres & J. Cochran | Durnham, Vt. - | Oct. 6, 1815 |
| Do do for wool and cotton - - | Peter Paddleford - | Lyman, N. H. - | May 18, 1816 |
| Do do - - - - - | Zaccheus Wheeler - | Richmond, N. H. - | July 18, 1816 |
| Do do do - - - | Jac. Sprinkel - | Wythe, Va. - - | Aug. 23, 1816 |
| Do do do - - - | Jac. Richardson - | Scipio, N. Y. - | Oct. 16, 1816 |
| Do and reeling machine - - - | Caleb Shillideay and Geo. McCaslon - | Shelbyville, Ky. - | Oct. 24, 1816 |
| Do cotton yarn - - - - - | Peleg Arnold - | Coventry, Ct. - | Aug. 1, 1818 |
| Do machine or frame for cotton - - - | Paul Moody - | Boston, Mass. - | May 6, 1819 |
| Do do do - - - | William Bald, jr. - | Providence, R. I. - | Oct. 10, 1820 |
| Do frame for cotton - - - - | Paul Moody - | Boston, Mass. - | Feb. 19, 1821 |
| Do machine, called the vertical spinner - - | John Brown - | Providence, R. I. - | Aug. 11, 1821 |
| Do do for wool, &c. - - - | Wm. Brushnell and J. Altoffer - | Harrisburg, Va. - | Aug. 30, 1821 |
| Do do do yarn - - - | John Sharp - - | Whitestown, N. Y. - | Mar. 13, 1822 |

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|---|---|---|---|---|
| Do | do | for cotton | Elisha Fuller | Attleborough, Mass. | Feb. 6, 1823 |
| Do | do | do | William Bryant | Mill Creek, Tenn. | Sept. 30, 1823 |
| Do | wool by continued rotary motion | | Gilbert Brewster | Norwich, Ct. | Mar. 13, 1824 |
| Do | machine, and receiving rolls of wool | | Do | Do | Mar. 13, 1824 |
| Do | do | for cotton | William Haworth | Providence town'p, Pa | June 2, 1824 |
| Do | do | called the horizontal spinner | C. Merrill, C. Batchellor, & S. King, jr. | Lowville, N. Y. | July 3, 1824 |
| Do | do | substitute for the flyer in the | O. G. & M. Rogers | Whitestown, N. Y. | Aug. 28, 1824 |
| Do | do | domestic | Elias Wood | Lowville, N. Y. | Sept. 3, 1824 |
| Do | do | for wool and cotton | Francis Price | New York | Oct. 5, 1824 |
| Do | do | do domestic | Lafferd Totten | Schoharie, N. Y. | Nov. 13, 1824 |
| Do | do | called the family spinner | D. Pool and A. Copeland | Philadelphia, Pa. | Dec. 24, 1824 |
| Do | do | do horizontal spinner | H. Hunt & C. Bradish | Lowville, N. Y. | Dec. 24, 1824 |
| Do | do | for wool | John Griggs, jr. | Ashford, Ct. | Dec. 30, 1824 |
| Do | do | | Sidney White | Wrentham, Mass. | Dec. 31, 1824 |
| Do | do | called the family spinner and bobbin winder | John Gill | Plumb township, N. Y. | Feb. 19, 1825 |
| Do | do | called the vertical spinner | Samuel Slater | Middletown, Vt. | April 4, 1825 |
| Do | do | family and factory | Richard Woolsey | Kortwright, N. Y. | May 13, 1825 |
| Do | do | improvement on Brown's vertical spinner | J. R. & J. B. Wheeler | Kingsbury, N. Y. | May 26, 1825 |
| Do | do | for wool and cotton | A. S. Wiltse and Joel Farnham | Tioga, N. Y. | June 28, 1825 |
| Do | do | horizontal | J. S. & B. J. Billings | Moreau, N. Y. | Jan. 16, 1826 |
| Do | do | called the fancy spinner | J. R. & J. B. Wheeler | Galway, N. Y. | Mar. 3, 1826 |
| Do | do | for wool and cotton by hand | Geo. W. Robinson | Providence, R. I. | Mar. 16, 1826 |
| Do | do | or splicing cotton and woollen rolls | Gardner Barton, jr. | Shaftsbury, Vt. | April 22, 1826 |
| Do | do | horizontal, improvement on Calvin Merrill's | D. Hunt & S. Wheeler | Knox, N. Y. | May 2, 1826 |
| Do | do | family | J. Watt, F. A. Priest, and G. Freeman | Jefferson co., O. | May 20, 1826 |

## LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Spinning machine, for wool | J. Corrill and W. P. Rogers | Harpersfield, O. | June 15, 1826 |
| Do do flax and hemp | W. Hunt and W. Hoskins | Martinsburg, N. Y. | June 22, 1826 |
| Do do cotton and wool | Joseph Hathaway | Poultney, N. Y. | July 24, 1826 |
| Do do and reeling wool and cotton | Joseph Woodhull | Chester, N. Y. | Nov. 14, 1826 |
| Do do domestic | Lafford Totten | Schoharie, N. Y. | Nov. 22, 1826 |
| Do do wool and cotton | Seth Boyden | Foxborough, Mass. | Dec. 7, 1826 |
| Do do do do | Do | Do | Dec. 29, 1826 |
| Do do | Nathaniel Remington | Geneva, N. Y. | April 21, 1827 |
| Do do do do | William Church | Birmingham, Eng. | June 11, 1827 |
| Do do do | Benjamin Lapham | Queensbury, N. Y. | June 29, 1827 |
| Do do inprovement on Brown's vertical spinner | Henry Wilson | Pomfret, N. Y. | July 13, 1827 |
| Do do family | William Jones | Thornville, O. | July 27, 1827 |
| Do do for cotton bagging | John C. Dewees, | Mason co., Ky. | Dec. 28, 1827 |
| Do do for wool, flax, and hemp | Theodore T. Abbot | Greenland, N. H. | Feb. 26, 1828 |
| Do do do and cotton | Arthur Critchfield | Union township, O. | April 24, 1828 |
| Do do do do from the roll | Wm. R. McCall | Vincennes, In. | May 12, 1828 |
| Do do called the domestic spinner | Edward Penny | Adams, N. Y. | June 27, 1828 |
| Do do for cotton and wool | John W. Wheeler | Galway, N. Y. | Oct. 11, 1828 |
| Do and twisting cotton | John Thorpe | Providence, R. I. | Nov. 20, 1828 |
| Do or filling, and slack twisted yarn | Do | Do | Nov. 25, 1828 |
| Do machine, called the ring groove spinner | Do | Do | Dec. 31, 1828 |
| Do do for wool and cotton by hand | Nathaniel Harris | Fairfield co., O. | Jan. 21, 1829 |

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| Do do called the cap spinner - - | John Thorp - | Providence, R. I. - | Jan. 23, 1829 |
| Do do improvement on Thorp's, (patented 25th November, 1828) - - | Do - - | Do - | April 3, 1829 |
| Do do called the running cap spinner - | Do - - | Do - | June 13, 1829 |
| Do do do American spinner - | Warren Allen - | New Haven, N. Y. - | Aug. 15, 1829 |
| Do do for silk, cotton, flax, &c. - - | George Addison and S. H. Stevens - | New York - - | Oct. 10, 1829 |
| Do do for wool - - - - | John Orndorff - | Russelville, Ky. - | Nov. 10, 1829 |
| Do do called the golden spinner - - | Joseph B. Wheeler - | Galway, N. Y. - | Dec. 30, 1829 |
| Do wheel - - - - - | Amos Miner - | - - - - | Nov. 16, 1803 |
| Do do for cordage - - - - | William B. Dyer - | Baltimore, Md. - | Feb. 27, 1808 |
| Do do - - - - - - | Tim. Cruttenden - | Poultney, Va. - | April 6, 1808 |
| Do do - - - - - - | Ob. Seely - - | - - - - | Aug. 6, 1808 |
| Do do - - - - - - | William Drury - | Brookfield, Mass. - | Mar. 19, 1810 |
| Do do - - - - - - | James Shaw - - | Herkimer, N. Y. - | April 27, 1812 |
| Do do - - - - - - | Daniel Hurlbut - | Aurelius, N. Y. - | Aug. 4, 1813 |
| Do do - - - - - - | Harvey Wright and Orlestus Roberts - | Bristol, Ct. - | Mar. 26, 1814 |
| Do and quilling wheels with heads - - | Emory Russell - | Long Meadow, Mass. | April 18, 1814 |
| Do wheel - - - - - | Elias B. Stanford - | Newtown, Ct. - | April 11, 1816 |
| Do do - - - - - | James Wright - | Campbell co., Ky. - | Feb. 28, 1817 |
| Do do small - - - - | Nathan Lewis - | Canandaigua, N. Y. - | Mar. 29, 1817 |
| Do do - - - - - - | Tim. Cruttenden - | New York - - | May 12, 1817 |
| Do do - - - - - - | Zalmon T. Bradley - | Gr. Barrington, Mass. | April 21, 1818 |
| Do do - - - - - - | John Browne - | Providence, R. I. - | June 12, 1818 |
| Do do - - - - - - | Henry Wilson - | Mendon, N. Y. - | Dec. 29, 1818 |
| Do do linen - - - - - | Benjamin Simmons - | Paris, N. Y. - | July 20, 1820 |
| Do do wool - - - - - | Gilbert Brewster - | Norwich, Ct. - | Feb. 27, 1824 |
| Do do - - - - - - | Charles F. Schaffle - | Lewisburg, Pa. - | Feb. 28, 1824 |
| Do do - - - - - - | Guy Brookes - | Athol, N. Y. - | April 2, 1824 |
| Spool frame - - - - - | Elihu Robinson - | Augusta, Mass. - | Mar. 6, 1816 |

## LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Spoons, manufacturing - - - - - | Thomas Bruff - | Maryland - - | Sept. 14, 1801 |
| Do do - - - - - | Isaiah Bisbee - | Bath, Mass. - - | Nov. 20, 1809 |
| Do do - - - - - | Jac. Perkins - | Newburyport, Mass. | June 29, 1813 |
| Do do - - - - - | James Ridgway - | Groton, Mass. - | Sept. 22, 1814 |
| Do do - - - - - | William Gale - | New York - - | Dec. 7, 1826 |
| Stamping engravings on horn and tortoise shell - - | Joseph H. Derby - | Worcester, Mass. - | April 30, 1816 |
| Steel, tempering - - - - - | David Hartley - | Westminster, Eng. - | Feb. 24, 1792 |
| Do do for cutting glass - - - | Benjamin Duvall - | Virginia - - | Feb. 14, 1799 |
| Do welding to iron - - - - - | D.Pettibone,Ez.Chapman, & J. Nichols - | Albany, N. Y. - | Dec. 22, 1802 |
| Do do - - - - - | Daniel Pettibone - | Roxbury, Ct. - | Mar. 22, 1806 |
| Do or bar iron, mode of welding by pit coal without the use of charcoal - - - - | Benjamin King - | Washington, D. C. - | Nov. 15, 1811 |
| Do manufacturing from pig iron - - - | Enoch Leonard - | Canton, Mass. - | Jan. 6, 1812 |
| Do card teeth, elastic, making and using, and converting iron into steel fish hooks - - - | Eb. Jenks - - | Colebrook, Ct. - | Nov. 13, 1813 |
| Do converting iron partially into - - - | Do - - | Do - - | Jan. 28, 1818 |
| Do cast, welding to iron - - - - | Daniel Pettibone - | Boston, Mass. - | Aug. 21, 1819 |
| Do making cast or wrought - - - - | Horatio G. Spafford - | Albany, N. Y. - | Oct. 30, 1822 |
| Do do or iron - - - - - | Do - - | Do - - | Oct. 30, 1822 |
| Do cast, scrap and bar iron converted into - - | Samuel Collins - | Troy, N. Y. - | April 10, 1823 |
| Do converting iron into - - - - | Eleazer L. Losey - | New Brunswick, N.J. | Nov. 20, 1823 |
| Do carbonated from wrought iron - - - | Stephen Pope - | New York - - | Nov. 20, 1829 |
| Stockings, machine for knitting - - - | Aaron Porter, James | | |

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| | Mead, and James Stedwell | Queensbury, N. Y. | July 31, 1815 |
| Stock, composition bit | Augustus Phelps | Marlborough, Ct. | Oct. 10, 1829 |
| Straw plats and bonnets, machine for cleaning | Eleazer Smith | Franklin, Mass. | Mar. 30, 1808 |
| Do weaving with silk or thread | Mary Kies | Killingly, Ct. | May 5, 1809 |
| Do wove plait | William Pond | Wrentham, Mass. | Feb. 28, 1811 |
| Do plait, trimming and dressing | Daniel Atherton | Providence, R. I. | April 26, 1811 |
| Do bonnets, pressing | Simon Pettee | Foxborough, Mass. | Sept. 14, 1825 |
| Do whitening Leghorn and gimp | Henrietta Cooper | Washington twnsh. Pa. | Nov. 12, 1828 |
| Suspenders, manufacturing | Orange Webb | New York | Sept. 18, 1804 |
| Do do | Simon Smith | New Haven, Ct. | Oct. 23, 1804 |
| Do do | Richard Howell | - | Mar. 5, 1806 |
| Do do | Jones Dawson | Philadelphia, Pa. | Nov. 6, 1806 |
| Do straps | Orange Webb | New York | Oct. 14, 1807 |
| Do manufacturing | James Davis | Philadelphia, Pa. | May 15, 1810 |
| Do do | Henry Burke | Bucks co., Pa. | May 25, 1811 |
| Do do double spring | Benjamin Wolcott | Danbury, Ohio | May 29, 1811 |
| Do do | Martin Nelson | Philadelphia, Pa. | Oct. 17, 1814 |
| Do do | Joseph Barnett | Do | Sept. 14, 1816 |
| Do do | Benjamin Wildes | Utica, N. Y. | Aug. 19, 1826 |
| Do do | Abm. L. Vanhorn | Philadelphia, Pa. | Feb. 22, 1827 |
| Do do | Edwin Chesterman | New York | June 19, 1827 |
| Tacks, machine for making | Jesse Reed | Hanover, Mass. | Aug. 1, 1816 |
| Tassels and cords for boots, &c. | Alfred Janes | Hartford, Ct. | March 1, 1813 |
| Teaseling cloth | James Olney | Westmoreland, N.Y. | Mar. 29, 1817 |
| Do | Josiah Beckwith | Lynn, Ct. | May 16, 1817 |
| Do and napping | Aaron Foster | Poultney, Vt. | Nov. 25, 1818 |
| Do do | Do | Whitestown, N. Y. | Aug. 24, 1821 |
| Temples for looms | Benjamin Rogers | Beaver Creek, Ohio | Nov. 24, 1814 |
| Do weavers' perpetual | Daniel A. Smith | Townsend, Mass. | Feb. 23, 1816 |
| Do sliding | John Waterman | Providence, R. I. | May 28, 1818 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Temples for cloth looms | John Bazin, jun. | Canton, Mass. | August 8, 1823 |
| Do do | Philo C. Curtis | Paris, N. Y. | June 16, 1825 |
| Do for weaving | Orsemas M. Stillman | Brookfield, N. Y. | Jan. 30, 1826 |
| Do spring | A. Jenk & J. Clewell | Holmesburg, Pa. | Mar. 19, 1827 |
| Do rotary | Ira Draper | Sangus, Mass. | April 1, 1829 |
| Thimbles, manufacturing | Asa Spencer | New London, Ct. | June 8, 1804 |
| Do do for sail makers | Isaiah Jennings | New York | Nov. 20, 1807 |
| Do do rims without soldering, for | Stephen Chandler | Do | Feb. 4, 1811 |
| Do do do | Do | Do | Sept. 20, 1816 |
| Thread, packing | Reuben Langdon | Hartford, Ct. | June 20, 1821 |
| Do of wool, manufacturing | William Bell | Fayette co., Ky. | June 1, 1825 |
| Throstle for spinning wool, &c. | Stephen Shallcross | New York | Jan. 21, 1814 |
| Do spindle | Chs. Lewis & C. Taylor | Poughkeepsie, N. Y. | June 26, 1822 |
| Do cotton spinner | Benjamin Brundred | Mamaroneck, N. Y. | Jan. 17, 1824 |
| Do spindle | Gilbert Brewster | Norwich, Ct. | Mar. 13, 1824 |
| Do bobbin or spool | Thomas Van Riper | Patterson, N. J. | Aug. 16, 1826 |
| Do | Samuel Blydenburg | New York | Nov. 10, 1829 |
| Do frame | Henry Ruggles | Do | Nov. 24, 1829 |
| Timber, bending | E. Green & M. Blakeslee | Litchfield, Ct. | Mar. 20, 1822 |
| Tin, mode of opening sheet | Calvin Whiting and Eli Parsons | Massachusetts | April 14, 1804 |
| Do ware, manufacturing | Barnabas Langdon | St. Alban's, Vt. | May 10, 1805 |
| Do plate, do | David Noble | Philadelphia, Pa. | May 9, 1814 |
| Do do do | Aaron Burk | New York | Feb. 11, 1815 |
| Do ware do | Seth Peck | Southington, Ct. | April 23, 1819 |

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| Do ware, &c. | Oliver Hubbard | Claremont, N. H. | Nov. 12, 1829 |
| Tobacco, manufacturing | James Caldwell and Christo. Batterman | Albany, N. Y. | Jan. 26, 1793 |
| Do do | Peter Lorillard | New York | April 25, 1810 |
| Do spool for spinning | S. & E. Hardy | Kennebec, Me. | Dec. 30, 1820 |
| Do manufacturing | John Allen, jr. and C. Geoghegan | Richmond, Va. | April 3, 1827 |
| Do spinning and turning of wheel | Jas. Vanderpool and John Eagles | Newark, N. J. | April 8, 1812 |
| Tongs, fire irons, &c. | Richard Whittingham | New York | June 8, 1821 |
| Tongs, cast iron | Enos H. Buell | Marlborough, Ct. | March 6, 1828 |
| Tools, making edge | Horatio G. Spafford | Troy, N. Y. | Dec. 19, 1822 |
| Tread wheel | Cornelius Watson | Addison townsh., O. | Dec. 22, 1827 |
| Tubes of clay, machine for making | John H. Rowan and H. Wise | Fredericktown, Pa. | May 10, 1827 |
| Turning lathe | William Patrick | Leverett, Mass. | April 24, 1827 |
| Turning tenons for rake teeth | J. W. Sweet and W. Stedman | Berkshire, Mass. | Mar. 5, 1827 |
| Do rake and hoe handles | William Shepardson and J. C. Sperry | Hamilton, N. Y. / Camden, N. Y. | Dec. 3, 1827 |
| Do do do | Anson Sperry | Rotterdam, N. Y. | Dec. 26, 1827 |
| Twine, tarring and spooling | Israel Decker | Boston, Mass. | April 3, 1819 |
| Do laying and twisting seine | Joseph Clarkson | Baltimore, Md. | Aug. 16, 1826 |
| Do cotton, manufacturing | Alson Pond | Petersburg, Va. | April 21, 1829 |
| Twisting, reeling, and doubling machine | H. E. & J. Haight | New York | Aug. 30, 1813 |
| Do machine, self-supplying | Walter Hunt | Do | June 11, 1829 |
| Types, casting | William Wing | Hartford, Ct. | Aug. 28, 1805 |
| Do moulds, printers' | Archibald Binney | Philadelphia, Pa. | Jan. 29, 1811 |
| Do smoothing or rubbing printers' | Do | Do | Feb. 4, 1811 |
| Do mould for casting | Do | Do | May 17, 1814 |
| Do casting moveable | George Webster | New York | Feb. 28, 1816 |

LIST OF PATENTS—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Types, moulds | George B. Lothian | New York | Dec. 18, 1816 |
| Do casting machine, called the mechanical type caster | John Sturdevant and E. Starr | Boston, Mass. | Oct. 23, 1827 |
| Do do printers' | Wm. M. Johnson | New York | Aug. 21, 1828 |
| Do do | George F. Peterson | Do | Oct. 13, 1828 |
| Tyre, bending | Joseph Meredith | Lebanon, Pa. | Sept. 9, 1825 |
| Do do | Charles Cooper and Abm. Tustin | Do | Sept. 28, 1825 |
| Do do | Walter Janes | Ashford, Ct. | June 19, 1826 |
| Do do | Do | Do | July 14, 1827 |
| Do do hoops, &c. | Josiah Butler | Cobleskill, N. Y. | Sept. 24, 1829 |
| Umbrella, manufacturing | William Gamble | Washington, D. C. | July 3, 1824 |
| Do and parasol manufacturing | William Sleeper | Philadelphia, Pa. | Nov. 22, 1826 |
| Vice used in cutting combs | Philo Pratt | Meriden, Ct. | Nov. 22, 1825 |
| Do for slitting ivory | Do | Do | Feb. 12, 1828 |
| Do socket | Luther Hemenway | Sullivan, H. H. | Sept. 4, 1828 |
| Wadding, manufacturing cotton | James Beaumont | Kendall, Mass. | Dec. 3, 1814 |
| Warping machine | Thomas Siddall | Germantown, Pa. | Mar. 27, 1815 |
| Do and dressing cotton goods | James Morgan | Baltimore, Md. | April 5, 1821 |
| Weaving and beating sail duck | James Davenport | New Jersey | Feb. 14, 1794 |
| Do lathe | William Harris | Massachusetts | Mar. 15, 1800 |
| Do machine | Walter Janes | Ashford, Ct. | Feb. 16, 1810 |
| Do do | Nathaniel Miller and Philip W. Miller | Franklin, Mass. | Aug. 20, 1811 |
| Do do | Job Rood | Canterbury, Ct. | Jan. 23, 1812 |

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|---|---|---|---|
| Do feather cloth | Jona. & Rozanna Sizer | New London, Ct. | Oct. 21, 1812 |
| Do spooling and winding | Eb. Stowell | Middleburg, Vt. | Feb. 28, 1815 |
| Do machine | Ira Draper | Weston, Mass. | June 7, 1816 |
| Do do | Stephen Armstrong | Poughkeepsie, N. Y. | April 7, 1818 |
| Do do | David Grieve | Providence, R. I. | April 11, 1818 |
| Do do | Jer. H. Pierson and J. H. Simmons | Hampstead, N. Y. | Dec. 31, 1819 |
| Do harness | M. Chandler and E. Brown | Cazenovia, N. Y. | Jan. 26, 1821 |
| Wheel heads for spinning wheels | Amos Miner | Marcellus, N. Y. | April 11, 1810 |
| Do do do | William H. Peabody | Woodbury, Ct. | Dec. 14, 1812 |
| Do do do | Eli Church | Homer, N. Y. | Mar. 18, 1813 |
| Do do do | Emery Russell | Long Meadow, Mass. | April 18, 1814 |
| Do do linen | Brown Smith & Chs. Stewart | Truxton, N. Y. | Dec. 8, 1814 |
| Do do | David Lee | Guilford, Ct. | May 6, 1816 |
| Do do | Isaac Mudge and Milo Hatch | Sherburne, N. Y. | April 10, 1819 |
| Do do linen | Jared S. Stewart | Springfield, N. Y. | April 19, 1821 |
| Do do accelerating | Diana H. Tuttle | Williamson, N. Y. | May 17, 1824 |
| Wheel regulator and spare geer | John L. Sullivan | Boston, Mass. | Feb. 28, 1818 |
| Wheel and rest | Israel Johnson, jr. | Moriah, N. Y. | May 1, 1829 |
| Wheel and racket | Mareus B. Parmelee | Newtown, Ct. | Sept. 21, 1808 |
| Wheelwrights' labor-saving machine | Mellen Battle | New York | April 2, 1810 |
| Whips, twisted whalebone | Joseph Reeve | Newburg, N. Y. | April 25, 1808 |
| Wicks, cotton yarn | George Dickinson | New York | Feb. 21, 1828 |
| Winding the thread and quills of the shuttle for weaving | Levi Ruggles | Boston, Mass. | Aug. 16, 1810 |
| Do spools and bobbins for weaving | Walter Janes | Ashford, Ct. | Aug. 20, 1810 |
| Do do do do | Augustus C. Sherwood | - - - | Oct. 18, 1814 |
| Do yarn from bobbins | Paul Moody | Boston, Mass. | Mar. 9, 1816 |
| Do spooling and bobbin machine | Calvin Flag and Obed Wright | Hudson, N. Y. | June 29, 1816 |

## LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Winding machine called the socket bobbin winder - | John Thorp and Silas Shepard - | Taunton, Mass. - | Oct. 14, 1816 |
| Wire weaving - - - - - | Timothy Kirk and Job Leslie - | York, Pa. - - | May 9, 1792 |
| Do winding and spinning - - - - | Henry Burke - | Philadelphia, Pa. - | June 18, 1810 |
| Do drawing machine - - - - | William Wadsworth - | Hartford, Ct. - | Oct. 6, 1812 |
| Do do do - - - - - | Jno. T. & Ths. Walden | New York - - | Oct. 31, 1812 |
| Do do do - - - - - | John J. Staples - | Flushing, N. Y. - | May 10, 1813 |
| Do do card, and other - - - - | Russel Pronty - | Spencer, Mass. - | Jan. 19, 1822 |
| Do harness - - - - - - | Elisha Attis - | Cazenovia, N. Y. - | Dec 30, 1824 |
| Do do improvement on Chandler & Brown's - | Ezra Brown - | Do - - | April 12, 1826 |
| Do do - - - - - - - | Do - - | Do - - | Oct. 30, 1828 |
| Do rolling - - - - - - | James Howell - | Philadelphia, Pa. - | Jan. 11, 1812 |
| Do cutting machine - - - - - | Abiel Stephens - | Andover, Mass. - | Nov. 11, 1828 |
| Do fences and nets - - - - - | Chauncey Hall - | Meriden, Ct. - | Nov. 27, 1829 |
| Wool carding machine - - - - - | Benjamin Standring - | New Hampshire - | June 28, 1803 |
| Do preparing for worsted by applying heat - - | Joseph Banford - | Philadelphia, Pa. - | Mar. 18, 1813 |
| Do manufacturing - - - - - | John Goulding - | Dedham, Mass. - | Dec. 15, 1826 |
| Do do - - - - - - | Do - - | - - - | April 27, 1827 |
| Do do or other fibrous material - - | Do - - | - - - | Feb. 16, 1829 |
| Do do do do - - | Do - - | - - - | Feb. 16, 1829 |
| Do do do do - - | Do - - | - - - | June 11, 1829 |
| Do do - - - - - - | Do - - | - - - | July 21, 1829 |
| Do do - - - - - - | Do - - | - - - | July 10, 1827 |

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| Wringing dyes, &c. out of cloths, a machine called the spiral curvilinear compresser - - | William Nelson - | Batavia, N. Y. - | Nov. 13, 1828 |
| Yarn, preparing for weaving - - - - | [illegible] & W. E. Windsor - | Providence, R. I. - | Aug. 8, 1817 |
| Do drawing and forming into readies - - | Robert Graves - | Boston, Mass. - | Nov. 22, 1820 |
| Do machine for equalizing the strain upon - - | Do - - | Do - - | Nov. 22, 1820 |
| Do making cotton without the aid of twist - - | Erastus Walcott - | Newport, N. Y. - | Dec. 11, 1821 |
| Do rolls, forming on the shuttle bobbin - - | John Thorp - | Providence, R. I. - | Mar. 20, 1829 |

## LIST OF PATENTEES—FACTORY MACHINERY.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Austin, Cyrus - | New Jersey - | Improvement in the manufacturing of paper - | Dec. 14, 1798 |
| Abbett, Henry - | Pennsylvania - | Machine for rolling iron - - - - | May 4, 1802 |
| Allison, Burgiss, and John Hawkins - | New Jersey - | Making paper from corn husks - - - | May 30, 1802 |
| Allen, Amos D. - | Windham, Ct. - | The chip hat machine - - - - - | May 10, 1804 |
| Allison, Burgiss, and Richard French - | New Jersey - | Nail and spike machine - - - - | June 8, 1804 |
| Allen, Amos D., and Ashael Kelsey - | Windham, Ct. - | Machine for cutting chips for bonnets and hats - | Sept. 5, 1804 |
| Albricks, Jacob - | Wilmington, Del. - | Delaware spinner - - - - - - | Oct. 10, 1809 |
| Ames, Oliver - | Plymouth, Mass. - | Trip hammer - - - - - - | April 25, 1810 |
| Alger, Cyrus - | Boston, Mass. - | Casting rollers for rolling iron - - - | Mar. 30, 1811 |
| Atherton, Daniel - | Providence, R. I. - | Straw plait, trimming and dressing - - - | April 26, 1811 |
| Anderson, David, and Levi - | Philadelphia - | Machine for manufacturing files - - - | April 20, 1812 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Allison, Burgiss | Philadelphia, Pa. | Portable spinning machine | April 27, 1812 |
| Allison, Burgiss | Burlington, N. J. | Perpetual wool spinner | Mar. 3, 1813 |
| Alger, Cyrus | Boston, Mass. | Casting iron hinges | May 18, 1814 |
| Allison, Burgiss | Burlington, N. J. | Portable spinning machine | June 28, 1814 |
| Antrim, Pindar | Philadelphia, Pa. | Preparing flax and hemp for spinning | Nov. 25, 1814 |
| Allen, Simeon | - - - | Cutting horn or tortoise shell for combs | April 1, 1815 |
| Ayres, William, and James Cochram | Durham, Vt. | Family wool spinner | Oct. 6, 1815 |
| Andrews, John | Dinwiddie co., Va. | Screw for cutting wood and metal | Aug. 11, 1817 |
| Armstrong, Stephen | Poughkeepsie, N. Y. | Weaving | April 7, 1818 |
| Arnold, Peleg | Coventry, Ct. | Spinning cotton yarn | Aug. 1, 1818 |
| Aborn, John | Burlington co., N. J. | Machine for dipping candles | Mar. 20, 1821 |
| Ames, John | Springfield, Mass. | Paper making | May 14, 1822 |
| Arnold, Aza | North Providence R.I. | Roving cotton | Jan. 21, 1823 |
| Averill, John R. | Manchester, N. Y. | The cylindrical stave dresser | Dec. 29, 1824 |
| Attis, Elisha | Cazenovia, N. Y. | Wire harness | Dec. 30, 1824 |
| Allen, Timothy | Plymouth, Mass. | The slitting mill machinery | Feb. 5, 1826 |
| Arnold, James H. | Bellemont, O. | Carding wool machine | Sept. 25, 1826 |
| Avery, William | Cazenovia, N. Y. | Saw, circular, reacting | Dec. 8, 1826 |
| Allen, John P. | Manchester, Mass. | Sawing veneers | Dec. 8, 1826 |
| Ames, Oliver | Easton, Mass. | Shovels, making | Mar. 5, 1827 |
| Allen, John, jr., and O. Geoghegan, | Richmond, Va. | Tobacco, manufacturing | April 3, 1827 |
| Ainsden, Amery | Bloomfield, N. Y. | Stave for the truss hoop, making ready | July 27, 1827 |

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|---|---|---|---|
| Adams, Wm. & Marcus | Ogden, N. Y. | Casks, barrels, hogsheads, &c., machine for manufact'g | Jan. 24, 1828 |
| Abbot, Theodore T. | Greenland, N. H. | Wool, flax, and hemp, spinning | Feb. 26, 1828 |
| Alley, John, sen. | Pise, Indiana | Axes, making | April 9, 1829 |
| Atwood, Charles | Middletown, Ct. | Doffer, circulating and transverse, Atwood's | April 18, 1829 |
| Angels, Charles | Philadelphia | Machine for punching straps | July 15, 1829 |
| Arnold, John | Norwalk, Ct. | Cloth, forming the web without spinning or weaving | July 15, 1829 |
| Allen, Zachariah | Providence, R. I. | Cloth, raising nap on woollen | Aug. 10, 1829 |
| Allen, Warren | New Haven, N. Y. | Spinner, American | Aug. 15, 1829 |
| Addison, George, and L. H. Stevens | New York | Silk, cotton, flax, &c., spinning | Oct. 10, 1829 |
| Baily, Francis | Philadelphia, Pa. | Punches for type, &c. | Jan. 29, 1791 |
| Briggs, Saml., sr. & jr. | Philadelphia, Pa. | Nail machine | Aug. 2, 1791 |
| Biddis, John | Pennsylvania | Paper making | Mar. 31, 1794 |
| Byington, Jared | Connecticut | Nails | Jan. 15, 1796 |
| Brunnell, Mark J. | - - | Books and paper, ruling | Nov. 16, 1796 |
| Bigelow, John | Connecticut | Manufacturing nails | Nov. 19, 1796 |
| Byington, Jared | Do | Heading nails | Dec. 23, 1796 |
| Burt, William | - - | Raising nap on cloth | June 23, 1797 |
| Blydenburg, Samuel | Connecticut | Dipping candles | Mar. 22, 1798 |
| Biddis, John | Pennsylvania | Improvement in the machine for reducing fabrics | May 6, 1800 |
| Bruff, Thomas | Maryland | Spoons, manufacturing | Sept. 14, 1801 |
| Bartlett, Oliver, Otis Bartlett, and George Bartlett | - - | Nail manufacturing | Feb. 17, 1803 |
| Brewer, Daniel | Pennsylvania | Ruling machine | April 22, 1803 |
| Boureau, Nicholas | - - | Nail cutter | Aug. 21, 1803 |
| Bennet, Philip | Rochester, Mass. | Loom for weaving chips | Feb. 8, 1806 |
| Brown, David, jr | Warren, R. I. | Machine for winding cotton | Feb. 5, 1807 |
| Buffum, Arnold | - - | Carding machine for fur and wool hats | Feb. 21, 1807 |
| Bigelow, Elisha | Baltimore, Md. | Nail cutting machine | April 1, 1807 |
| Burt, Enoch | Princeton, N. J. | Shearing cloth | June 23, 1807 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Butland, James | Philadelphia | Manufacturing iron | Nov. 12, 1807 |
| Bailey, John, jr. | Plymouth, Mass. | Friction roller, door hinge | May 16, 1808 |
| Barber, Samuel, and Nehemiah W. Tomkins | New York | Saw, whip, application of the | June 1, 1808 |
| Bruff, Thomas | Washington, D. C. | Pressing shot | Oct. 5, 1808 |
| Badger, Willard | Boston, Mass. | Pipes or tubes, casting | Dec. 26, 1808 |
| Brown, George | Scaghticoke, N.Y. | Machine for roving flax and hemp | June 16, 1809 |
| Bissel, Luther | Hartwick, N. Y. | Nail cutting machine | June 27, 1809 |
| Barrett, William | - - | Machine for dying silk | June 27, 1809 |
| Bernard, Phares | Whitestown, N. Y. | Moulds for paper | July 7, 1809 |
| Bailey, Francis | Salisbury, Pa. | Hot pressing paper | July 31, 1809 |
| Bisbee, Isaiah | Bath, Mass. | Manufactoring spoons | Nov. 20, 1809 |
| Battle, Mellen | New York | Wheelwrights' labor saving machine | April 2, 1810 |
| Burke, Henry | Philadelphia | Winding or spinning wire | June 18, 1810 |
| Brunnell, Mark J. | - - | Books and paper ruling | Nov. 16, 1796 |
| Brawn, Daniel | Pennsylvania | Ruling machine | April 22, 1803 |
| Barber, Samuel, and Nehemiah W. Tomkins | New York | Saw, whip, application | June 1, 1808 |
| Burke, Henry | Bucks co., Pa. | Suspenders, &c. | May 25, 1811 |
| Bowhay, William | Philadelphia | Dowelling and coguing instrument | Oct. 14, 1816 |
| Beatty, Leon'd | Wilkesbarre, Pa. | Calicoes and paper printing | Dec. 28, 1810 |
| Bogenrief, Val. | Georgetown, Ca. | Boring blocks for cartouch boxes, brushes, &c. | July 10, 1810 |

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|---|---|---|---|
| Blydenburgh, Samuel | West Brookfield, Mass. | Weaving machine | Sept. 12, 1810 |
| Burney, Archibald | Philadelphia, Pa. | Printers' type mould | Jan. 29, 1811 |
| Do | Do | Smoothing or rubbing printers' types | Feb. 4, 1811 |
| Boynton, John | Windham co., Ct. | Machine for straining and grinding cards | Mar. 30, 1811 |
| Barnard, Joseph | Troy, N. Y. | Vibrating machine for cutting nail plates | April 16, 1811 |
| Baxter, John G. | Philadelphia, Pa. | Family spinning cotton machine | June 22, 1811 |
| Bergh, Christian, & Peter Schermerhorn, jr | New York | Rope yarn, spinning and winding | July 2, 1811 |
| Beal, Josiah | Ontario co., N. Y. | Trip hammer | Oct. 5, 1811 |
| Barrett, Oliver, jr. | Scaghticoke, N Y. | Machine for roving wool and cotton | Dec. 3, 1811 |
| Belknap, Morris B. | Greenfield, Mass. | Machine for cutting files | Jan. 16, 1812 |
| Brewster, Gilbert, G. Trumbull, and Jas. Mathes | Barre, Vt. | Spinning cotton, wool, flax, &c. | Jan. 16, 1812 |
| Baldwin, Sylvanus, & Elisha Town | Vermont | Spinning machine, called the linen spinner | May 6, 1812 |
| Bailey, Robert | Washington, D. C. | Machine for dealing cards | May 15, 1812 |
| Belknap, Morris B. | Worcester, Mass. | Do for cutting files | June 13, 1812 |
| Brown, John | Providence, R. I. | Roping and spinning cotton and wool | Aug. 8, 1812 |
| Bostwick, Gershom | Brookfield, Ct. | Machine for shearing cloth | Sept. 28, 1812 |
| Booth, George | Poughkeepsie, N. Y. | Do do do | Oct. 13, 1812 |
| Barrett, Oliver, jr. | Troy, N. Y. | Felting cloth | Dec. 8, 1812 |
| Byington, Jared | Hinesborough, Vt. | Pitchforks | Jan. 12, 1813 |
| Barnes, Allen, Samuel Gray, & Jabez Clark | Windham, Ct. | Making blankets and cloth from sheep's wool | Feb. 2, 1813 |
| Banford, Joseph | Philadelphia, Pa. | Preparing wool for worsted by applying heat to machinery | Mar. 18, 1813 |
| Blanchard, Thomas | Sutton, Mass. | Horizontal shearing machine | May 4, 1813 |
| Brown, John | Providence, R. I. | Farmers' wool spinner | May 12, 1813 |
| Briggs, Shepard | Canaan, Ct. | Loom | May 27, 1813 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Bruff, Thomas | Washington, D. C. | Shot and bullets by pressure | June 4, 1813 |
| Bissell, Luther, Justice Hinman, Luke C. Hinman, and Benoni Gaines | Hartwick, N. Y. | Machine for spinning cotton | June 19, 1813 |
| Broad, Joseph | Salisbury, Ct. | Twisted screw gimlet | June 25, 1813 |
| Baker, Daniel | Trenton, N. J. | | Aug. 19, 1813 |
| Briggs, Nathaniel | New York | Spring bolt for window sashes | Oct. 13, 1813 |
| Burnham, Abner, and Thos. S. Barnum | Sharon, Ct. | Machine for making screws | Dec. 31, 1813 |
| Briggs, Daniel | Canaan, Ct. | Loom | Feb. 19, 1814 |
| Broad, Joseph | Springfield, Mass. | Rasping and grinding dyewoods | Mar. 1, 1814 |
| Brown, Brightberry | Albemarle, Va. | Water loom | Mar. 21, 1814 |
| Belknap, Stephen | Washington, D. C. | Cutting nails, brads, spikes, of all sizes | April 8, 1814 |
| Binney, Archibald | Philadelphia, Pa. | Moulds for casting types | May 17, 1814 |
| Broad, Aaron | Litchfield, Ct. | Buff polishing wheel | June 6, 1814 |
| Do | Do | Manufacturing screws, ramrods, knives and forks | June 6, 1814 |
| Bazier, John, jr. | Canton, Mass. | Loom for stockings | Oct. 28, 1814 |
| Bronson, Salmon | Kent, Ct. | Loom | Nov. 25, 1814 |
| Beaumont, James | Kendall, Mass. | Cotton wadding, manufacturing | Dec. 3, 1814 |
| Burke, Aaron | New York | Tin plate, manufacturing | Feb. 11, 1815 |
| Blydenburg, Samuel, & Hez. Healy | Worcester, Mass. | Loom, water, steam, and other power | Feb. 20, 1815 |
| Brown, John | Providence, R. I. | Family spinner | Feb. 24, 1815 |

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| Bakewell, Thomas | Pittsburg, Pa. | Glass, manufactured | March 3, 1815 |
| Barnum, T. S., and E. Smith | Litchfield, Ct. | Cloth, machine for napping | April 4, 1815 |
| Brownell, Joseph | Otsego, N. Y. | Auger | May 16, 1815 |
| Boyden, Seth, jr., | Boston, Mass. | Brad, machine for cutting | June 27, 1815 |
| Do | Do | Machine for cutting brads | June 27, 1815 |
| Bissel, Luther, Luke C. Hinman, & Spebran Wilson | Otsego, N. Y. | Spinning cotton | July 17, 1815 |
| Barker, William | Smithfield, R. I. | Card for cotton | Aug. 12, 1815 |
| Bartholomew, Erastus, and Wm. Church | Boston, Mass. | Manufacturing nails | Aug. 18, 1815 |
| Baldwin, Sylvanus | Do | Spinning machine, called the linen spinner | Aug. 18, 1815 |
| Bryant, Jehiel, & John Bryant | Saratoga, N. Y. | Hats, manufacturing | Aug. 26, 1815 |
| Bryant, William | Davidson co., Tenn. | Machine for roving cotton | April 29, 1816 |
| Beard, David | Guilford, N. C. | Machine for cutting fur | April 30, 1816 |
| Do | Do | Hats, blocking | May 28, 1816 |
| Barnett, Joseph | Philadelphia, Pa. | Suspenders | Sept. 14, 1816 |
| Bigelow, Elisha | Massachusetts | Heading nails | Jan. 29, 1817 |
| Beckurth, Josiah | Lynn, Ct. | Teaseling cloth | May 16, 1817 |
| Bazen, Stephen, & Joseph A. | Canton, Mass. | Cordage, manufacturing | Oct. 17, 1817 |
| Bryant, Ebenezer | New London, Ct. | Die, founders' moulding | Mar. 18, 1818 |
| Bradley, Solomon T. | G. Barrington, Mass. | Wheel, spinning | April 21, 1818 |
| Browne, John | Providence, R. I. | Do do | June 12, 1818 |
| Bryent, John I. | Andover, N. H. | Napping, shearing, and brushing cloth | Sept. 2, 1818 |
| Barron, James | Hampton, Va. | Corks for bottles | Jan. 12, 1819 |
| Brown, John | Berkes co., Va. | Shovel, sheet iron, for barns | Feb. 19, 1819 |
| Brown, John | Providence R. I. | Roping and spinning wool and cotton | July 22, 1819 |
| Blanchard, Thomas | Middlebury, Mass. | Machine for turning gun stocks | Sept. 6, 1819 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Blanchard, Thos. | Middlebury, Mass. | Stocks, gun, turning | Jan. 20, 1820 |
| Buffum, A., & J. Kelly | Westfield, R. I. | Hats, elastic water proof | Feb. 17, 1820 |
| Bryan, John, and S. D. Fuller | Mendham co., N. J. | Cloth machine, napping and brushing | April 4, 1820 |
| Bald, Wm., jr. | Providence, R. I. | Spinning cotton machine | Oct. 10, 1820 |
| Burtis, William | New York | Pans, baking or burning | Nov. 7, 1820 |
| Burr, James | Johnstown, N. Y. | Machine for finishing leather | Nov. 24, 1820 |
| Barstow, Charles | Exeter, N. H. | Rods, ram | Nov. 21, 1820 |
| Brown, John | Providence, R. I. | Wool and cotton, roping and spinning by hand | Jan. 23, 1821 |
| Bryan, Thos. & W. | New York | Silks, staining and printing of | June 29, 1821 |
| Brown, John | Providence, R. I. | Spinner, vertical, the | Aug. 11, 1821 |
| Bushwell, Wm., & J. Altoffer | Harrisburg, Va. | Wool, spinning, &c. | Aug. 30, 1821 |
| Baker, Luke | Putney, Vt. | Axe, pick | Jan. 15, 1822 |
| Brooks, Samuel | New York | Hair, separating from skins | April 4, 1822 |
| Barnitt, Thomas | Philadelphia, Pa. | Tar, pressing out of yarn for cordage | May 20, 1822 |
| Butters, Joshua | Boston, Mass. | Leather, splitting | May 31, 1822 |
| Bent, William | Philadelphia, Pa. | Skins, splitting | June 17, 1822 |
| Ball, Daniel | Ballstown, N. Y. | Gridirons | Aug. 29, 1822 |
| Brown, Beriah | Exeter, R. I. | Picker, wool | Sept. 2, 1822 |
| Bolles, Lemuel | New York | Nails, manufacturing | Sept. 19, 1822 |
| Beach, Joseph | Middletown, Ct. | Saw setting machine | Oct. 28, 1822 |
| Burnap, Lucy | Merrimac, N. H. | Hats, weaving grass for | Feb. 16, 1823 |
| Benson, Matthew | Cincinnati, Ohio | Fire fender | May 19, 1823 |
| Brasier, John, jr. | Canton, Mass. | Looms, cloth for temples | Aug. 8, 1823 |

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|---|---|---|---|
| Brown, John | Boston, Mass. | Saws, circular | Aug. 13, 1823 |
| Bonnell, Sylvanus | Chatham, Mass. | Do do | Sept. 26, 1823 |
| Bryant, William | Mill Creek, Tenn. | Spinning cotton | Sept. 30, 1823 |
| Brundred, Benj. | Mamaroneck, N. Y. | Spinner, cotton throstle | Jan. 17, 1824 |
| Brewster, Gilbert | Norwich, Ct. | Wheel for wool spinning | Feb. 27, 1824 |
| Do | Do | Throstle spindle | Mar. 13, 1824 |
| Do | Do | Machine for receiving rolls of wool | Mar. 13, 1824 |
| Do | Do | Spinning wool by continued rotary wheel | Mar. 13, 1824 |
| Bergand, Ivers | New York | Bolts, copper, for ship building | Mar. 15, 1824 |
| Brooks, Guy | Athol, N. Y. | Wheel for spinning wool | April 2, 1824 |
| Brown, John | Providence, R. I. | Razors, making | June 28, 1824 |
| Burbank, Isaac | Worcester, Mass. | Manufacturing paper | Sept. 8, 1824 |
| Bruce, John | Springfield, Mass. | Barrels, scarfing and rolling the scarf of | Oct. 15, 1824 |
| Batchelder, John | Lancaster, N. H. | Knife, machine for sharpening currier's | Nov. 9, 1824 |
| Brown, Joel | Springfield, Mass. | Machine for cutting comb teeth | Dec. 8, 1824 |
| Blauvelt, Abram | New Brunswick, N. J. | Spiral spring for latch, bolt, and lock | Feb. 9, 1825 |
| Bird, Geo. | Walpole, Mass. | Paper polishing | April 11, 1825 |
| Burden, Hy. | Troy, N. Y. | Nails, wrought | May 26, 1825 |
| Burdick, Frances | Kortwright, N. Y. | Wool and cotton, roping and spinning | May 30, 1825 |
| Bell, Wm. | Fayette co., Ky. | Machine for making thread of wool | June 1, 1825 |
| Buffum, Arnold | Troy, N. Y. | Hats, preparing fur for | Sept. 23, 1825 |
| Bakewell, John P. | Pittsburg, Pa. | Gloss, furniture | Sept. 9, 1825 |
| Batchelder, James | Lancaster, N. H. | Knife, currier's, for shaving leather | Nov. 3, 1825 |
| Barnet, W. G. | Newark, N. J. | Lace, coach | Nov. 18, 1825 |
| Bint, Morris | Warwick, N. Y. | Hats, apparatus for dying | Nov. 8, 1825 |
| Billings, J. S. & B. J. | Moreau, N. Y. | Spinner for wool and cotton, horizontal | Jan. 16, 1826 |
| Brookings, John M. | Wiscasset, Me. | Mortar, moulding and pressing brick | Jan. 23, 1826 |
| Brown, J., and G. W. Robinson | Providence, R. I. | Bolts, rack for door | Mar. 24, 1826 |
| Barker, William | Kingston, Pa. | Slitting timber | Mar. 25, 1826 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Brimhall, J., and J. Keyes, jr. | West Boylston, Mass. | Rollers, for heating and glazing calender | April 1, 1826 |
| Burbank, Gardner | Worcester, Mass. | Paper, machinery for making | April 12, 1826 |
| Browne, Ezra | Cazenovia, N. Y, | Wire harness for weaving, improvement in Chandler and Brown's | April 12, 1826 |
| Baker, Horace | North Salem, N. Y. | Loom, carpet | April 14, 1826 |
| Boothe, E. & C. | Southbury, Ct. | Saw, for sawing fret work, verticle | April 22, 1826 |
| Barton, Gardner, jr. | Shaftsbury, Vt. | Splicing cotton and woollen rolls | April 22, 1826 |
| Bartholomew, Erastus | Boston, Mass. | Cordage, making | May 17, 1826 |
| Do | Do | Cables, chain | May 17, 1826 |
| Bergen, Cornelius | New York | Loom | June 14, 1826 |
| Branch, Hardin | Do | Augers, mode of turning any number of | Aug. 7, 1826 |
| Brook, Sam. | Do | Currier's knife, machine for constructing and grinding | |
| Boyden, Seth | Foxborough, Mass. | Cotton and wool spinning | Dec. 7, 1826 |
| Do | Do | Wool, cotton, &c., spinning | Dec. 29, 1826 |
| Borbridge, Thos., and Anson Martin | Ringston township Pa. | Revolving coal sifter | Dec. 30, 1826 |
| Bulkley, Chauncey | Colchester, Ct. | Hoes, by rolling cast steel | Jan. 10, 1827 |
| Bacon, Robert | Boston, Mass. | Hats, machine for planking | Jan. 31, 1827 |
| Brown, John, & Geo. W. Robinson | Providence, R. I. | Locks | Feb. 20, 1827 |
| Bailey, Uriah | West Newbury, Me. | Tortoise shell, &c., inlaying gold on | Feb. 22, 1827 |
| Brewster, Gilbert | Poughkeepsie, N. Y. | Cotton, roving manufacturing | Mar. 28, 1827 |
| Bailey, Jer. | Philadelphia, Pa. | Tubs, machine for cutting wood for sides of | April 7, 1827 |
| Brundred, Benj. | Oldham, N. J. | Spindle for spindle cotton, &c. | July 14, 1827 |

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| Briggs, Elisha | Perry, N. Y. | Ware, hollow wooden | July 30, 1827 |
| Baker, Horace | North Salem, N. Y. | Loom for weaving figured goods | Aug. 30, 1827 |
| Boggs, John | Philadelphia, | Saw sett, spring | Oct. 4, 1827 |
| Beach, C. C. K. | Portland, Me. | Cutter, cant, twist blade, fur | Nov. 10, 1827 |
| Bailey, Uriah | West Newbury, Mass. | Combs, making ornamental | Nov. 15, 1827 |
| Bishop, Nat. | Danbury, Ct. | Combs, rolling the backs of, &c., Brazillian or horn | Nov. 17, 1827 |
| Ballard, William | Boston, Mass. | Copper, machine for punching | Dec. 6, 1828 |
| Bulkley, Elizabeth H. | Colchester, Ct. | Shovels and scythes, and spades, of cast steel and iron | Feb. 28, 1828 |
| Buell, Enos H. | Marlboro', Ct. | Tongs, cast iron | March 6, 1828 |
| Bailey, Uriah | West Newbury, Mass. | Horns for combs, mode of pressing | Feb. 2, 1828 |
| Brady, Elijah | Mount Pleasant, N. Y. | Bellows, constructing | April 3, 1828 |
| Brown, William | Frankfort, Pa. | Reel, for handling hides, Brown's | April 17, 1828 |
| Boring, A., & Wm. W. Jones | Thornville, O. | Rope reeding machine | May 5, 1828 |
| Bakewell, Thos. B. & John P. | Pittsburg, Pa. | Glass knobs, improvement on Bakewell's | May 14, 1828 |
| Burt, C., O. D. Boyd, and A. H. Boyd | Manchester, Ct. | Loom, check and plaid power | Aug. 19, 1828 |
| Bump, Lewis B. | Wareham, Mass. | Saw, circular, cylindrical | Aug. 29, 1828 |
| Bason, Dan. M. | Huntington, Pa. | Carding machine | Oct. 10, 1828 |
| Beach, Moses Y. | Springfield, Mass. | Rags, machine for cutting | Oct. 10, 1828 |
| Black, James A. | Columbia, S. C. | Hoes, weeding and other | Oct. 13, 1828 |
| Brown, Ezra | Cazenovia, N. Y. | Harness, for weaving wire | Oct. 20, 1828 |
| Bayrd, Abel | South Reading, Mass. | Leather, polishing morocco and other | Dec. 29, 1828 |
| Butterworth, John | Philadelphia, Pa. | Drums, preparing grooves for mule | Dec. 30, 1828 |
| Bassett, David | Derby, Ct. | Augers, screw | Mar. 18, 1829 |
| Bartholomew, Truman | New York | Lock | April 3, 1829 |
| Bergin, G. H. | Philadelphia, Pa. | Salt from lye, in glass manufacturing, use of | April 3, 1829 |
| Babcock, Samuel | Middletown, Ct. | Spectacles, spiral spring | April 3, 1829 |
| Boynton, John | South Coventry, Ct. | Wool, machine for carding | April 11, 1829 |
| Bushnell, Nathaniel | Middletown, Ct. | Combs, wooden | April 14, 1829 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Brewster, Gilbert | Poughkeepsie, N. Y. | Speeder, for cotton roping, the eclipse | April 18, 1829 |
| Byington, Aaron | Herkimer, N. Y. | Carpeting, felt | May 6, 1829 |
| Brown, John | Providence, R. I. | Combs, manufacturing | June 11, 1829 |
| Brittingham, A. P. & E. | New York | Files, renewing old | July 27, 1829 |
| Britt, Samuel A. | Cazenovia, N. Y. | Shears, of a cloth shearing machine | Aug. 10, 1829 |
| Barker, John, and L. Kinsley | Green co., N. Y. | Felt machine | Aug. 29, 1829 |
| Butler, Josiah | Cobleskill, N. Y. | Tire, hoops, &c., bending | Sept. 24, 1829 |
| Baldwin, Daniel | Ithaca, N. Y. | Hats, scalding and napping | Oct. 15, 1829 |
| Blydenburg, Samuel | New York | Throstle for spinning cotton | Nov. 10, 1829 |
| Caldwell, James, and Chris. Butterman | Albany, N. Y. | Tobacco, manufacturing | Jan. 26, 1793 |
| Carnes, John, jr. | Delaware | Mould, paper | April 11, 1793 |
| Cox, Zach. | Georgia | Saw, circular | Mar. 14, 1794 |
| Cliff, Peter | Massachusetts | Nails, manufacturing cut | Nov. 16, 1796 |
| Chandler, George | Maryland | Nails, cutting and heading | Dec. 12, 1796 |
| Condit, Joseph, jr. | New Jersey | Paper, from currier's shavings, manufactured | Dec. 28, 1801 |
| Caruthers, William | Virginia | Nails, manufacturing | Dec. 13, 1802 |
| Corning, Ezra, jr. | Connecticut | Hats, manufacturing | June 13, 1803 |
| Cleveland, George | Hartford, Ct. | Hats, preparing fur for | Sept. 9, 1803 |
| Cutting, Nat. | Washington, N. Y. | Rope yarn, spinning | July 14, 1806 |
| Cutting, Nat. | Do | Cables, improving the quality of | Aug. 14, 1806 |
| Coolidge, William | Boston, Mass. | Paper polishing machine | April 18, 1808 |
| Cruttenden, Tim. | Poultney, Vt. | Wheel, spinning | April 23, 1808 |
| Cohoon, Thomas | Cazenovia, N. Y. | Saw, cross cut, machine | April 11, 1808 |

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|---|---|---|---|
| Chandler, Asa, & Silas Shepherd | Taunton, Mass. | Nail, machine, for heading | Sept. 16, 1808 |
| Couch, Stephen, and Asa Tonne | Boston, Mass. | Rolling, plating, and nail cutting machine | Nov. 21, 1808 |
| Cutter, Ephraim | Brattleboro, Vt. | Fur, peltry, and extracting hair | Mar. 1, 1809 |
| Coppinger, Joseph | Frederick, Geo. | Saw, machine for driving whip | Mar. 19, 1810 |
| Cooper, Charles | Lebanon, Pa. | Loom, weaving | Nov. 4, 1808 |
| Cutter, Ephraim | Walpole, N. H. | Hair, from peltry, extracting | Feb. 12, 1810 |
| Clark, Martin | New York | Fur cutting machine | April 21, 1810 |
| Curtis, Philo C. | Paris, N. Y. | Loom | Nov. 17, 1810 |
| Chandler, Stephen | New York | Rims, making, without soldering, thimble | Feb. 4, 1811 |
| Cummings, Benjamin | Palmer, Mass. | | Mar. 2, 1811 |
| Cutter, Ephraim | Walpole, N. H. | Loom crank | Sept. 27, 1811 |
| Crosbie, Richard | Newark, N. J. | Loom | Jan. 6, 1812 |
| Crafts, Chauncey | Woodbury, Ct. | Whirl and regulator, for spinning flax, &c. | Feb. 10, 1812 |
| Chickering, Nathaniel, & D. Chickering | Dover, Mass. | Nail machine, improvement on Newell's | Mar. 9, 1812 |
| Clements, Stephen | Hartford, Vt. | Frame, water, for spinning cotton | Mar. 16, 1812 |
| Campbell, Asa | Kingston, Pa. | Looms | Mar. 28, 1812 |
| Cobb, Elkanah | Georgetown | Blankets, combining wool into | April 29, 1812 |
| Canviss, Edward M. | Southington, Ct. | Horse hoofs, for making combs, clarifying | May 6, 1812 |
| Cornell, Gideon | Rensellaer co., N. Y. | Roping and spinning, machine for | July 22, 1812 |
| Cooper, Charles, and George Shaake | Lebanon, Pa. | Loom | Aug. 28, 1812 |
| Cutter, Ephraim | Walpole, N. H. | Machine for cutting fur from peltry | Feb. 4, 1813 |
| Church, Eli | Homer, N. Y. | Wheel head | Mar. 18, 1813 |
| Comstock, Samuel, & Moses Pike | Harrisburg, Pa. | Spinning and roving, machine for | April 15, 1813 |
| Carrington, Daniel, & Ira Ives | Litchfield, Ct. | Comb twinning machine | Aug. 20, 1813 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Carelton, Jedediah - | Salem, N. H. - | Hats, felt, from a mixture of clothiers frocks with sheeps wool, manufacturing - - - - | Jan. 21, 1814 |
| Coulter, John, and Stephen Gano - - | Berkeley co., Va. - | Loom - - - - - - - - | April 18, 1814 |
| Craig, Seth - - | Philadelphia, Pa. - | Loom - - - - - - - - | Oct. 18, 1814 |
| Chappins, John F. - | New York - - | Spinning hemp and flax - - - - | Nov. 8, 1814 |
| Collins, John B. - | Meriden, Ct. - | Moulds, single jointed, pewter, for casting wire eyes, button - - - - - - | April 12, 1815 |
| Cooper, Charles, and George Shalk - | Lebanon, Pa. - | Loom - - - - - - - - | May 31, 1815 |
| Christie, Joseph A. - | Elizabethtown, N. J. | Nap on woollen cloth, carding and raising - - | Jan. 24, 1816 |
| Curtis, Philo C. - | Paris, N. Y. - | Loom, water - - - - - - | May 28, 1816 |
| Chapman, Samuel - | Otsego, N. Y. - | Loom - - - - - - - - | Aug. 30, 1816 |
| Chandler, Stephen - | New York - - | Rims, thimble - - - - - | Sept. 20, 1816 |
| Cromwell, Charles - | Do - - | Ribbons, machine for smoothing and glossing - - | Jan. 27, 1817 |
| Cruttenden, Tim. - | Do - - | Wheel, spinning - - - - - | May 12, 1817 |
| Collins, James - | Anson, Me. - | Shears, revolving cloth - - - - | June 10, 1817 |
| Cummings, Benjamin | Townsend, Mass. - | Loom - - - - - - - - | Oct. 3, 1817 |
| Child, Lewis - - | New York - - | Letters and figures, projecting metallic - - | Oct. 4, 1817 |
| Cox, Benjamin - | Northampton, Mass. | Rags, preparing for - - - - - | Mar. 28, 1817 |
| Collbert, Robert - | Boston, Mass. - | Cordage and rope making - - - - | Mar. 17, 1818 |
| Croadsdale, Basaleel - | Byberry, Pa. - | Brushes from broom corn - - - - | Dec. 21, 1819 |
| Crain, Eleazer - | Springfield, Va. - | Rope making machine - - - - | Jan. 10, 1820 |
| Curtis, Elijah S. - | Charlestown, Mass. - | Brush for whitewashing - - - - | June 2, 1820 |

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|---|---|---|---|
| Chandler, M., and E. Brown | Cazenovia, N. Y. | Harness weaving | June 26, 1821 |
| Cary, Zachehary | Oxford, Me. | Machine for shearing cloth | Feb. 20, 1821 |
| Chepman, Joseph | Frankfort, Pa. | Sail, manufacturing duck | July 9, 1821 |
| Cranston, Samuel | Cumberland, R. I. | Spring, shuttle spindle | Mar. 20, 1822 |
| Collins, Samuel | Troy, N. Y. | Scrap and bar iron, converting into cast steel | April 10, 1823 |
| Cooper, James | Augusta co., Va. | Chains, &c., preventing them from slipping | June 17, 1823 |
| Curtis, Philo C. | Paris, N. Y. | Carding and spinning wool | Oct. 15, 1825 |
| Costill, Stacy | Philadelphia | Blocks, brush | Feb. 25, 1824 |
| Congdon, Elisha | Norwich, Ct. | Cotton, process of, manufacturing | Mar. 12, 1824 |
| Cloud, James | Chester, Pa. | Plates, saw, | Sept. 8, 1824 |
| Crosbie, George | Augusta, Me. | Paper ruling machine | Jan. 21, 1825 |
| Crane, Luther | Ware, N. H. | Cotton into yarn, manufacturing | Mar. 26, 1824 |
| Curtis, Philo C. | Paris, N. Y. | Cloth, templing | June 16, 1824 |
| Cooper, Charles, and Abraham Fustin | Lebanon, Pa. | Tire bending machine | Sept. 28, 1824 |
| Conger, J., and L. Woodbury | Locke, N. Y. | Metal for weaver's harness, eyes | Nov. 15, 1824 |
| Collier, Phœbe | - - - | Felloes for sawing wheels | Nov. 15, 1826 |
| Cooper, J., and P. Barnett | Philadelphia | Hats, machine for finishing | May 31, 1826 |
| Carmichael, William | Sand Lake, N. Y. | Roping and spinning cotton machine | June 10, 1826 |
| Corrill, J., and Wm. P. Rodgers | Harpersfield, O. | Spinning wool machine | June 15, 1826 |
| Clarkson, Joseph | Baltimore | Seine twine, laying and twisting cotton for | Aug. 16, 1825 |
| Chidester, Samuel | Windham, N. Y. | Loom | Sept. 2, 1825 |
| Cooper, Edward | Richmond, Va. | Bands, keyed iron | Sept. 14, 1825 |
| Caldwell, Sheldon | Windham, Ct. | Auger, set, for wheel hubs | Nov. 20, 1826 |
| Collins, James | Anson, Me. | Cloth, machine for shearing | Mar. 6, 1827 |
| Church, William | Birmingham, Eng. | Wool and cotton, apparatus for spinning | June 11, 1827 |
| Chesterman, Edwin | New York | Suspenders | June 19, 1827 |

## LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Cass, Moses, and Aaron Bull | Carolina, N. Y. | Saw, two edged | Aug. 31, 1827 |
| Collier, Elisha H., | Plymouth, Mass. | Paper, manufacturing, from sea grass | April 15, 1827 |
| Critchfield, Arthur | Union township, O. | Wool and cotton spinning machine | April 24, 1828 |
| Cooper, Henrietta | Washington town'p, Pa. | Straw, leghorn, and gimp, whitening | Nov. 12, 1828 |
| Cooper, John W., | Do | Paper, from rags of various colors. Whitening straw, &c., for the same | Feb. 7, 1829 |
| Conant Abel | Pepperville, Mass. | Auger, hollow | June 11, 1829 |
| Clark, A., & H. Chase | Falmouth, Mass. | Hat bodies, machine for making | June 11, 1829 |
| Chubb, William | New York | Hair hackling machine | July 9, 1829 |
| Chapin, Levi | Walpole, N. H. | Saws, hanging and straining | Oct. 13, 1829 |
| Dorr, Samuel G. | Albany, N. Y. | Nap on cloth, raising by wheel of knives | Oct. 20, 1792 |
| Davenport, James | New Jersey | Duck, weaving and beating sail | Feb. 14, 1794 |
| Duvall, Benj. | Virginia | Steel, for cutting glass, tempering | Feb. 14, 1799 |
| Daniel, Phineas | Philadelphia, Pa. | Shot, making | Mar. 31, 1804 |
| Dyer, William B. | Baltimore | Cordage, spinning wheel for making | Feb. 27, 1804 |
| Dawson, Jones | Philadelphia, Pa. | Suspenders | Nov. 6, 1806 |
| Dorr, Russell | Kinderhook, N. Y. | Cloth, shearing | May 8, 1807 |
| Dodge, Jordan | Rutland, Vt. | Nail and brad machine | July 11, 1807 |
| Dewey, David | Poultney, Vt. | Cloth, machine for shaving | June 27, 1809 |
| Drury, William | Brookfield, Mass. | Wheel, spinning | Mar. 19, 1810 |
| Decatur, Stephen, and William Tatham | | Horse shoes, machine for making | Oct. 11, 1810 |
| Downer, Elisha | Duceyter, N. Y. | Hammer, trip | April 11, 1810 |
| Davis, James | Philadelphia, Pa. | Suspenders | May 15, 1810 |

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| Dickerman, Lemuel | Scaghticoke, N. Y. | Cloth, shearing and laying the nap of | July 18, 1812 |
| Drummond, John | New York | Lathe, weavers' | July 24, 1813 |
| Durrin, Edmund | Weatherfield, Vt. | Machine, zigzag shearing | Jan. 21, 1814 |
| Derby, Joseph H. | Leominster, Mass. | Combs, at a single operation, cutting | Mar. 26, 1814 |
| Davey, James | Fair Haven, Vt. | Nails, machine for heading cut | April 7, 1814 |
| Dudley, Luther | Sutton, Mass. | Scythes, manufacturing | May 27, 1814 |
| Dewey, David | Poultney, Vt. | Machine, vibrating shearing | Dec. 7, 1814 |
| Danielson, Asa | Otsego, N. Y. | Mill, fulling | May 16, 1815 |
| Dexter, Willoughby | Winchester, Ct. | Andirons | May 17, 1815 |
| Duncan, William, and John Davidson | Acworth, N. H. | Cloth, raising nap on | May 29, 1815 |
| Derby, Joseph H. | Worcester, Mass. | Horn and tortoise shell, stamping engravings on | April 30, 1816 |
| Draper, Ira | Weston, Mass. | Weaving | June 7, 1816 |
| Drake, Gideon | Windsor, Ct. | Cards, machine for grinding and facing | Feb. 28, 1817 |
| Dow, Phineas, and D. Treadwell | Boston | Screw machine | Aug. 8, 1817 |
| Dewey, David | Rutland co., Vt. | Cloth, machine, shearing | Mar. 16, 1818 |
| Dana, Daniel, and Anthony Holmead | Canton, Mass. | Lathe for turning gun barrels | Aug. 24, 1818 |
| Drummond, James | New York | Nets for catching fish, gill | Aug. 27, 1818 |
| Decker, Israel | Boston, Mass. | Twining, tarving, and spooling | April 3, 1819 |
| Day, Henry, and Jac. | New York | Locks | April 4, 1820 |
| Dakin, Thomas | Harper's Ferry, Va. | Barrels, draw, grinding, gun | July 28, 1820 |
| Durkie, Harvey, assig. of J. Chittenden | Burlington, Vt. | Locks and latches | Aug. 12, 1820 |
| Deaves, Isaac | Philadelphia | Mantle pieces, cast iron | Feb. 21, 1821 |
| Delliba, James | Watervleit, N. Y. | Crucibles, making | Sept. 26, 1823 |
| Dodge, James, jr. | St. Alban's, Vt. | Nogle, prevent its burning, bellows | Jan. 20, 1824 |
| Danforth, George | Norton, Mass. | Speeder, counter twisting | Sept. 2, 1824 |
| Dana, Aaron | Troy, N. Y. | Beams, pattern for casting iron | Dec. 28, 1824 |
| Delano, Jesse | New York | Chest, wrought fire proof iron | Mar. 7, 1826 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Day, William - - | Gardiner, Mass. - | Machine for dipping candles - - - - | Mar. 11, 1826 |
| Davis, S., H. P. Babbitt, and B. P. Grinnell - - | Providence, R. I. - | Seals, watch - - - - - - | Mar. 3, 1827 |
| Davis, Jos. S. - | Providence, R. I. - | Keys, watch - - - - - - | April 3, 1827 |
| Dummer, Phineas C. - | Jersey City, N. J. - | Moulds for pressing glass - - - - | Oct. 16, 1827 |
| Daley, Edmund - | Baltimore - - | Chair - - - - - - - | Feb. 9, 1827 |
| Daley, Jacob - - | Do - - | Chair, repairing and finishing - - - - | Feb. 22, 1827 |
| Dummer, G. & P. C., and J. Maxwell - | Jersey City, N. J. - | Moulds, combination of, in forming glass - - | Oct. 16, 1827 |
| Dewees, John C. - | Mason co., Ky. - | Cotton bagging, spinning - - - - | Dec. 28, 1827 |
| Duncan, Sam - - | Northampton, N. Y. | Cloth machine, vibrating and napping - - - | Jan. 21, 1828 |
| Dickinson, George - | New York - - | Wicks, cotton yarn - - - - - | Feb. 21, 1828 |
| Danforth, Charles - | Ramapo, N. Y. - | Bobbins and flyers for cotton spinning - - - | Sept. 2, 1828 |
| Doutt, Thomas, jr. - | Philadelphia, Pa. - | Glass, melting and fusing - - - - | Oct. 10, 1828 |
| Debit, William - | E. Hartford, Ct. - | Machine for cleaning rags - - - - | Jan. 13, 1829 |
| Draper, Ira - - | Saugus, Mass. - | Temples, Rotary - - - - - | April 1, 1829 |
| Davis, Shadrach, jr. - | Dartmouth, Mass. - | Nail, machine wrought - - - - | Dec. 8, 1829 |
| Dawacott, George - | Boston, Mass. - | Punch, power press - - - - - | July 21, 1829 |
| Dunn, W. J. - | New York - - | Sharpener, knife - - - - - | Aug. 18, 1829 |
| Earle, Pliny - - | Massachusetts - | Leather, pricking, for cards - - - - | Dec. 6, 1803 |
| Elgar, Jos. - - | Rockville, Md. - | Nails and brads, making from rolled iron - - | Dec. 16, 1803 |
| Elgar, Jos. and Jno. - | York Town, Pa. - | Nail manufacturing - - - - - | Sept. 1, 1809 |
| Ellis, Jonathan - | - - - | Brad cutting machine - - - - - | Feb. 10, 1807 |
| Ellis, Abner - - | Dedham, Mass. - | Chair bottoms, - - - - - | June 12, 1811 |

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| Eastman, Abiather | Norway, Mass. | Nail and spike machine | April 8, 1811 |
| Elgar, Nathan | York, Pa. | Nail machine | June 19, 1815 |
| Elliott, James, jr. | Philadelphia | Chair bottoms | May 26, 1812 |
| Elgar, John | York, Pa. | Nail manufacturing | June 21, 1815 |
| Elgar, Nathan | York, Pa. | Nails, cutting and heading | July 25, 1815 |
| Ellicott, George | Baltimore | Rolling bar iron edgeways | Sept. 20, 1816 |
| Edwards, John | New York | Printing and forming colored figures on hard substances | Aug. 22, 1816 |
| Edwards, John | New York | Beams, manufacturing scale | Nov. 19, 1816 |
| Eastman, Cyrus | Hillsboro', N. H. | Tubes, rolling metallic | April 16, 1818 |
| Ellicott, Evan J. | Baltimore | Plates and sheet, manufacturing iron into | May 28, 1818 |
| Eastman, Rob. and J. Jaquith | Brunswick, Mass. | Saw, circular, for clapboards | Mar. 16, 1820 |
| Evans, David | Alexandria | Hats, napping with rabbit's fur | Oct. 2, 1820 |
| Ewbank, Thomas | New York | Lead, tinned sheet | May 30, 1823 |
| Edwards, John | New York | Pots, kettles, &c., elevator, &c. | Mar. 19, 1825 |
| Farrington, Thomas | Boston, Mass. | Wood and bark, sawing | May 9, 1792 |
| French, Daniel | Connecticut, | Nails, cut | Dec. 23, 1796 |
| Do | Do | Nails, wrought | Dec. 23, 1796 |
| Frost, Jason | Do | Nails, heading | Dec. 23, 1796 |
| Fling, Lester | Vermont | Nails, manufacturing | Dec. 19, 1797 |
| Fobes, Nathan | Massachusetts | Nail manufacturing | Aug. 2, 1802 |
| Fairbanks, John | Do | Rules, cylindrical paper | Nov. 30, 1803 |
| Frost, Abm. | - | Paper, machine for preparing top and swingled tow | Mar. 19, 1804 |
| Fordes, Nathan | Connecticut | Barrels, boring gun | Dec. 22, 1804 |
| French, Daniel | Middletown, Ct. | Oakum, manufacturing junk into | Oct. 9, 1805 |
| Fox, Joel, jr. | Middlesex, Mass. | Hammer, machine for working the trip | Feb. 25, 1807 |
| Fulton, Robert, and N. Cutting | New York, Washington City | Cordage, machine for manufacturing | Mar. 4, 1808 |
| Fairbanks, John | Boston, Mass. | Machine, cylindrical ruling | April 21, 1808 |
| Foster, Nathaniel | Flemmingsburg, Ky. | Hemp and flax, spinning | June 28, 1809 |
| Fairbanks, John | Boston, Mass. | Nail machine, eccentric roller | Aug. 14, 1810 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Ford, Joseph, & White, John - - | Boston, Mass. - | Paper hats - - - - - - | Nov. 25, 1811 |
| Foster, Nathan - | Flemmingsburg, Ky. | Spinning machine - - - - - | July 8, 1813 |
| French, Lewis - | New Haven, Ct. - | Wool, machine for carding - - - - | May 18, 1814 |
| French, Daniel - | Bridgeport, Pa. - | Buttons, turning - - - - - | April 23, 1816 |
| Flag, Calvin, & Obed Wright - - | Hudson, N. Y. - | Spinning and spooling bobbin, machine for - - | June 29, 1816 |
| Fisher, Schuyler - | Herkimer co., N. Y. | Hatters plank kettle - - - - - | July 15, 1816 |
| Farrington, Elijah - | New York - - | Chairs, manufacturing posts for sitting - - | Oct. 29, 1816 |
| Franklin, H. P. & W. B. Winsor - - | Providence, R. I. - | Yarn, preparation for weaving - - - | Aug. 8, 1817 |
| Foster, Aaron - | Poultney, Vt. - | Cloth, teaseling and napping - - - - | Nov. 25, 1818 |
| Forrester, Lot - | Ridgefield, Ct. - | Loom - - - - - - - | May 15, 1819 |
| Foot, Nison - - | Philadelphia - | Comb cutting machine - - - - | Oct. 28, 1819 |
| Fiske, Jonathan - | Medway, Mass. - | Speeder, double, No. 1 - - - - | Dec. 7, 1820 |
| Do - - | Do - - | Do do No. 2 - - - - | Dec. 7, 1820 |
| Do - - | Do - - | Do do No. 3 - - - - | Dec. 7, 1820 |
| Do - - | Do - - | Do do No. 4 - - - - | Dec. 7, 1820 |
| Do - - | Do - - | Do do No. 5 - - - - | Dec. 7, 1820 |
| Do - - | Do - - | Do do combination of improvements on the - | Dec. 7, 1820 |
| Fisher, Jacob - - | Kennebec, Me. - | Sleigh - - - - - - | Dec. 30, 1820 |
| Foster, Aaron - | Whitestown, N. Y. - | Cloth, teaseling and napping - - - - | Aug. 24, 1821 |
| Fuller, Francis - | New York - - | Candle making - - - - - | Sept. 29, 1821 |
| Force, Peter - - | Washington, D. C. - | Paper hangings, printing - - - - | Aug. 22, 1822 |
| Fuller, Elisha - | Attleborough, Mass. | Spinner, cotton - - - - - | Feb. 6, 1823 |

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|---|---|---|---|
| Finney, Jos. D. | Keene, N. H. | Chair, easy | May 8, 1823 |
| Fry, Samuel | New York | Shears with carved edges | Nov. 20, 1823 |
| Ferris, Elijah | West Chester, N. Y. | Marble, machine for rubbing or scouring | Mar. 7, 1826 |
| Fairchild, Reuben | Trumbull, Ct. | Paper, manufacturing by the agitator | May 4, 1829 |
| Freeborn, Gideon | New York | Hoe | July 7, 1829 |
| Garretson, Isaac | Pennsylvania | Nail heading and cutting | Nov. 16, 1796 |
| Grieve, David | Massachusetts | Looms | June 8, 1797 |
| Garber, Michael | Virginia | Nail machine | Feb. 20, 1801 |
| Gorham, Stephen | Massachusetts | Rope yarn and twine machine | Feb. 4, 1800 |
| Groves, M. C. | Do | Nails, heading | Sept. 3, 1802 |
| Garber, Michael | Staunton, Va. | Nails, manufacturing | April 17, 1804 |
| Geyssenhaymer, F. W. | Plymouth, N. H. | Nail cutting machine | Dec. 22, 1804 |
| Gookins, Richard | New Hampshire | Hats, frame for wool | Jan. 24, 1806 |
| Gaines, Richard | Georgetown, D. C. | Lock, balance pendulum | Mar. 17, 1806 |
| Guild, Abner | Dedham, Mass. | Carding machine for wool hats | Mar. 31, 1806 |
| Gragg, Samuel | Boston, Mass. | Chair, elastic | Aug. 31, 1808 |
| Green, Samuel | New London, Ct. | Paper made from sea weed | Feb. 15, 1809 |
| Gedney, Robert | New York | Combs from cattle hoofs | June 26, 1809 |
| Gregg, John | Green co., Pa. | Hats, planking | Mar. 14, 1810 |
| Groff, Philip | Little York, Pa. | Seine, mode of using the fishing | Dec. 16, 1809 |
| Gehble, Ernst | Northampton co., Pa. | Files, cutting | Oct. 10, 1811 |
| Giffen, William | New York | Flax or hemp, cylindrical frame for spinning or roving | Jan. 11, 1812 |
| Giles, Nehemiah | Fitchburg, Mass. | Flyer for spinning | Nov. 19, 1812 |
| Do | Do | Cotton, spinning | Nov. 19, 1812 |
| Guiramond, John M. | Baltimore | Loom | Jan. 7, 1814 |
| Gleasond, James | Philadelphia, Pa. | Screws, manufacturing | Jan. 7, 1814 |
| Gelzendennar, Jacob | Frederick co., Md. | Blankets, improvement in Cobb's machine for making | Sept. 30, 1814 |
| Griffing, Edward C. | Lyne, Ct. | Fur or wool, machine for bowing hatters' | Aug. 10, 1815 |
| Gates, John M. | Warren, Mass. | Cards, composition for preparing cotton and wool | Sept. 14, 1815 |
| Goodrich, William | Philadelphia, Pa. | Hats, manufacturing | Aug. 20, 1816 |
| Gilpin Thomas | Philadelphia, Pa. | Paper making by machinery | Dec. 24, 1816 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES | WHEN ISSUED. |
|---|---|---|---|
| Green, James | Harper's Ferry, Va. | Barrels, boring bit nuts for gun | Oct. 3, 1817 |
| Greenwood, Holmes | Providence, R. I. | Metal, polishing powder for | Jan. 28, 1818 |
| Grieve, David | Providence, R. I. | Weaving machine | April 11, 1818 |
| Grieve, David | Providence, R. I. | Cotton, roping, twisting, and winding | Sept. 18, 1818 |
| Guy, Francis | Baltimore, Md. | Carpets of paper | Feb. 23, 1819 |
| Garratt, William | New Lisbon, N. Y. | Emery, manufacturing | Feb. 27, 1819 |
| Graves, Rob | Boston, Mass. | Cordage, manufacturing | April 10, 1819 |
| Graves, Rob | Boston, Mass. | Gauge plates for making readies for ropes | Dec. 31, 1819 |
| Gilmour, William | Smithfield, R. I. | Loom, power | Oct. 28, 1820 |
| Graves, Rob | Boston, Mass. | Yarn into readies, drawing and forming | Nov. 22, 1820 |
| Do | Do | Cordage, mode of laying | Nov. 22, 1820 |
| Do | Do | Yarns, machine for equalizing the strain upon | Nov. 22, 1820 |
| Do | Do | Cordage, machine for laying | Feb. 1, 1821 |
| Do | Do | Cordage, top sled | Mar. 28, 1821 |
| Grant, Jos. | Providence, R. I. | Hats, machinery for setting up | Aug. 11, 1821 |
| Green, E., and M. Blackeslee | Litchfield, Ct. | Timber, bending | Mar. 20, 1822 |
| Grundy, Rufus | New York | Saw setter | Dec. 21, 1822 |
| Gamble, William | Washington, D. C. | Umbrella | July 3, 1824 |
| Griggs, John, jr. | Ashford, Ct. | Spinning wool | Dec. 30, 1824 |
| Gill, John | Plumb town'p, N. Y. | Spinner, family, and bobbin winder | Feb. 19, 1825 |
| Grant, Jos. | Providence, R. I. | Hat bodies, machine for winding and setting up | April 28, 1825 |
| Gore, Cyrus | Sheshequim, Pa. | Auger, strap | July 20, 1825 |
| Gustin, John S. | New York | Loom, wire power | Feb. 23, 1826 |
| Gale, William | New York | Spoons, manufacturing | Dec. 7, 1826 |

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|---|---|---|---|
| Goulding, John | Dedham, Mass. | Wool, &c., manufacturing | Dec. 15, 1827 |
| Green, Benj. | Hartford, Vt. | Polishing hard and soft substances | Mar. 27, 1827 |
| Grant, Jos. | Providence, R. I. | Hat bodies, setting up, improvement on Grant's machine | April 10, 1827 |
| Goulding, John | Dedham, Mass. | Wool, manufacturing | April 27, 1827 |
| Goulding, John | Do | Wool, manufacturing, &c. | July 10, 1827 |
| Griffiths, John | New York | Andirons, constructing feet of brass | Mar. 15, 1827 |
| Graves, Robert | Brooklyn, N. Y. | Cordage by machinery, manufacturing | July 25, 1827 |
| Goulding, John | Dedham, Mass. | Improvement in the composition to start the oil contained in wool | Aug. 24, 1827 |
| Do | Do | Wool, manufacturing | Aug. 24, 1827 |
| Do | Do | Shuttle, mode of throwing the | Aug. 24, 1827 |
| Do | Do | Wool, manufacturing, and other fibrous material | Feb. 16, 1829 |
| Do | Do | Do do do | Feb. 16, 1829 |
| Gay, Ira | Dunstable, N. H. | Mule, self-operating | April 10, 1829 |
| Goulding, John | Dedham, Mass. | Wool, manufacturing, or other fibrous material | June 11, 1829 |
| Do | Do | Do do | July 21, 1829 |
| Gould, Stephen, jr. | Litchfield, Ct. | Nail and screw machine | July 25, 1829 |
| Herbert, Obadiah | Mount Pleasant, N.J. | Thread, spinning and twisting | Jan. 28, 1792 |
| Hartley, David | Westminster, Eng. | Steel, tempering | Feb. 24, 1792 |
| Hancock, William | | Casting iron | Feb. 26, 1799 |
| Hart, Seth | Connecticut | Nail machine | Jan. 4, 1799 |
| Harris, William | Massachusetts | Lathe weaving | Mar. 15, 1800 |
| Hill, Allen | Hillsdale, Mass. | Beaming machine | May 6, 1805 |
| Hoxie, Christopher | Hudson, N. Y. | Auger | July 12, 1804 |
| Houston, John | Williamsburg, Va. | Hone, metallic | May 4, 1805 |
| Horwell, Richard | | Suspenders | March 5, 1806 |
| Hale, William | Champlain, N. Y. | Auger | Feb. 7, 1807 |
| Hicks, Jonathan | Hadley, Mass. | Nail cutting machine | Jan. 28, 1808 |
| Haggert, Amos | Middlesex co., Mass, | Lathe, turning, uniform | June 10, 1809 |
| Holmes, Alanson | Pomfret, N. Y. | Carding and spinning wool machine | Jan. 8, 1810 |
| Hartshorn, Joseph | Philadelphia | Paper, carbonated, for multiplying writings | April 20, 1810 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Hoskin, Shubael - | Catskill, N. Y. - | Hats, military, manufacturing - - - | April 30, 1810 |
| Hearick, Eben. - | Albany, N. Y. - | Spinner, domestic - - - - - | Aug. 17, 1810 |
| Hamilton, James - | Brookfield, Mass. - | Saw, wood - - - - - | July 31, 1809 |
| Hancock, Rbt., sen., & Edward W. Carr - | Philadelphia, Pa. - | Cutting wooden screws - - - - | March 1, 1811 |
| Hovey, Eleazer - | Canaan, N. Y. - | Shearing machine - - - - - | May 2, 1811 |
| Humphreys, William - | Humphreysville, Ct. | Wool, spinning and drawing - - - - | Oct. 4, 1811 |
| Howell, James - | Philadelphia - | Wire, machine for rolling - - - - | Jan. 11, 1812 |
| Hesser, Charles, and Amos Paxson - | Philadelphia - | Cutting files - - - - - | April 11, 1812 |
| Hazard, Elisha, and Josiah White - | Philadelphia - | Screws, machine for cutting - - - - | May 15, 1812 |
| Holladay, H. S., and E. G. Griffin - | Lyne, Ct. - - | Hats, bowing wool for - - - - | June 6, 1812 |
| Hill, Abel - - | Walpole, N. H. - | Cordage machine - - - - - | June 30, 1812 |
| Hart, Seth - - | Hempstead, N. Y. - | Cloth, brushing and finishing - - - - | July 27, 1812 |
| Heavin, John - | Montgomery co., Va. | Loom - - - - - - | Oct. 16, 1812 |
| Do - - | Do - - | Rope and twine - - - - - | Aug. 3, 1813 |
| Hurlbut, Daniel - | Aurelius, N. Y. - | Wheel, spinning - - - - - | Aug. 4, 1813 |
| Hollingshead, John, & Daniel Baker - | Trenton, N. J. - | Hair, extracting from skins - - - - | Aug. 19, 1813 |
| Holstead, Eben., and John Haight - | New York - - | Doubling, twisting, and reeling machine - - | Aug. 30, 1813 |
| Hess, John - - | Hempfield, Pa. - | Loom, revolving weaving - - - - | Oct. 2, 1813 |
| Hills, Silas - - | Hudson, N. Y. - | Cloth shearing machine - - - - | Oct. 22, 1813 |

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|---|---|---|---|
| Herrick, Ebenezer | Stockbridge, Mass. | Loom, stocking | Oct. 22, 1813 |
| Haines, John | Richmond, Va. | Screws, machine for cutting | Dec. 30, 1813 |
| Heavin, John | Montgomery co., Va. | Loom | Feb. 18, 1814 |
| Howe, Martin | New York | Augers | April 2, 1814 |
| Hawes, Silas | Bennington, Vt. | Files, machine for cutting | May 11, 1814 |
| Hathaway, Charles | Walton, N. Y. | Loom, family | Oct. 11, 1814 |
| Hill, William F. | New York | Needle and pin machine | Oct. 15, 1814 |
| Harrison, Thomas, and Robert Pierpont | New York | Silk dying | Oct. 18, 1814 |
| Hills, Samuel, and Moses Emery, jr. | Newburyport, Mass. | Comb stamp, twinning, and horn splitting machine | Oct. 21, 1814 |
| Hoadley, Benjamin | New Haven, Ct. | Wheel lathe | Dec. 16, 1814 |
| Hatch, John | Dedham, Mass. | Files, machine for cutting | May 1, 1815 |
| Hugus, James | Greenbush, Pa. | Carding machine by gleaning savers | Sept. 15, 1815 |
| Hayes, Henry | Philadelphia, Pa. | Nail manufacturing | Feb. 24, 1816 |
| Henry, Lewis | Bellows Falls, Vt. | Paper, machine for ruling | Aug. 24, 1816 |
| Hanks, Benjamin | Albany, N. Y. | Bells, moulding and casting | Nov. 4, 1816 |
| Hedge, Lemuel | Windsor, Vt. | Ruler, revolving | March 3, 1817 |
| Hall, Francis | Charlestown, Mass. | Loom, lint | Nov. 28, 1817 |
| Hall, Aaron & John | Boston, Mass. | Silk, removing spots in | Dec. 31, 1817 |
| Hill, William F. | New York | Saw, circular | July 11, 1818 |
| Haskell, Benjamin | Paris, France | Comb cutting machine | Nov. 3, 1819 |
| Hines, William | Coventry, R. I. | Speeder for winding cotton, double | Feb. 6, 1819 |
| Hotchkiss, Elihu, and Aaron Jayne | Brattleborough | Cloth shearing machine | Dec. 15, 1819 |
| Holmes, W. | Winchester, N. H. | Auger, using for boring guns, twisted screw | April 4, 1820 |
| Hatch, John | Baltimore | Watch chains | June 5, 1820 |
| Haight, Jno. & Nicholas | New York | Carpeting, ingrain | Aug. 12, 1820 |
| Hardy, S. & E. | Kennebec, Me. | Reel for spinning tobacco | Dec. 30, 1820 |
| Herbin, Peter F. | Patterson, N. J. | Reeds for weavers, metallic | Nov. 15, 1821 |
| Hart, Webb | Camden, S. C. | Saw teeth, machine for setting | Dec. 7, 1821 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Hedle, Paulus | New York | Railings, ornamenting the tops of iron and other | Feb. 21, 1822 |
| Heald, E. | Norridgewock, Me. | Cloth, machine for shearing | Dec. 4, 1822 |
| Hopkins, William | Plainfield, Ct. | Cotton whipper | March 6, 1825 |
| Hopkins, Jesse | Strasburg, Pa. | Vibrating rolling cotton or wool machine | Jan. 14, 1824 |
| Haworth, William | Providence twnsh., Pa. | Spinning cotton machine | June 2, 1824 |
| Do | Do | Mule carriage for spinning cotton | June 2, 1824 |
| Hoxie, Christopher | Hudson, N. Y. | Auger, post | July 26, 1824 |
| Hovey, William | Worcester, Mass. | Cloth shearing machine | Dec. 17, 1824 |
| Hunt, H., & C. Bradish | Lowville, N. Y. | Spinner, horizontal cotton and wool | Dec. 24, 1824 |
| Honey, John W. | Herculaneum, N. Y. | Shot screening table | Feb. 10, 1825 |
| Hale, E., J. S. Hale, & James Hale | Haverhill, Mass. | Wool carding machine | Feb. 18, 1825 |
| Hoyt, William | Brookville, Ind. | Bells | March 3, 1825 |
| Hickox, Horace | Rutland, N. Y. | Cloth, scouring and fulling | Mar. 26, 1825 |
| Holbrook, Benjamin | Providence, R. I. | Picker tube, used in weaving | Feb. 21, 1826 |
| Hunt, D., & S. Wheeler | Knox, N. Y. | Spinner, improvement on Calvin Merrill's horizontal | May 2, 1826 |
| Hunt, John | Shutesbury, Mass. | Lathe turning | June 8, 1826 |
| Hunt, W., & W. Hoskins | Martinsburg | Flax and hemp spinning machine | June 22, 1826 |
| Hathaway, Joseph | Poultney, N. Y. | Spinner, cotton and wool | July 24, 1826 |
| Hubbard, Jeremiah | Jamestown, N. C. | Fur from the skin, machine for cutting | Nov. 4, 1826 |
| Do | Do | Loom, domestic | Nov. 6, 1826 |
| Herring, Joseph | New York | Dying hair of seal skins | Nov. 16, 1826 |
| Haskins, William | Wheeling, Va. | Hats by steam, manufacturing | Dec. 29, 1826 |
| Hoyt, L., & E. Pierce | Poultney, N.Y. | Blowing and striking for blacksmiths | March 3, 1827 |
| Hall, John H. | Harper's Ferry | Substances, machine for cutting metallic | March 7, 1827 |

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|---|---|---|---|
| Hempsted, Stephen, jr. | St. Charles co., Mo. | Hats, stiffening for water proof | May 25, 1827 |
| Hutchinson, Benja. | Philadelphia | Bobbin, tube for spinning cotton | Oct. 18, 1827 |
| Hempsted, Stephen, jr. | St. Charles co., Mo. | Hats, stiffening for water proof | Oct. 26, 1827 |
| Harrington, Isaac H. | Albany, N. Y. | Knife, currier's | June 26, 1828 |
| Haddock, Marsden | New York | Paper, by the flat press, manufacturing | July 17, 1828 |
| Hemenway, Luther | Sullivan, N. H. | Vice, socket | Sept. 4, 1828 |
| Hatch, John | Roxbury, Mass. | Files, machine for cutting | Oct. 10, 1828 |
| Hunting, Mason | Watertown, Mass. | Paper top press, roller for making | Oct. 20, 1828 |
| Howell, B B. | Philadelphia | Iron, manufacturing malleable | Nov. 6, 1828 |
| Hazard, J.P. & R.G. | Providence, R I. | Cloth, manufacturing | Dec. 6, 1828 |
| Harris, Nathaniel | Fairfield co., Ohio | Spinning wool and cotton by hand | Jan. 21, 1829 |
| Harrington, William | Harrison, N. Y. | Carpeting, woollen | March 3, 1829 |
| Howe, Tyler | Spencer, Mass. | Saw, circular, revolving | Feb. 19, 1829 |
| Hunt, Walter | New York | Knife sharpener, and compound guard | Feb. 19, 1829 |
| Harrington, William | Harrison, N. Y. | Carpeting, woollen | June 11, 1829 |
| Hills, Stephen, 2d | Glastonbury, Ct. | Rope maker | June 11, 1829 |
| Hunt, Walter | New York | Twister, self-supplying | June 11, 1829 |
| Horton, Wm. B. | Middletown, Ct. | Spade, pronged | June 15, 1829 |
| Hubbard, Oliver | Claremont, N. H. | Tin ware, &c. | Nov. 12, 1829 |
| Hall, Chauncey | Meriden, Ct. | Fences and nets, wire | Nov. 27, 1829 |
| Hurd, Merritt | Augusta, N. Y. | Shearing nap from woollen cloth | Dec. 7, 1829 |
| Hatch, John | Westford, Vt. | Gauge, applied to the saw set | Oct. 12, 1829 |
| Jennings, Isaiah | New York | Thimbles for sailmakers, manufacturing | Nov. 20, 1807 |
| Do | Do | Rivets, machine for making | April 23, 1808 |
| Jelleff, Joseph | Butternuts, N. Y. | Nail machine | June 14, 1809 |
| Jones, Nat. | Southington, Ct. | Combs, wooden | May 9, 1809 |
| Jennings, Isaiah | New York | Saw, hand | April 17, 1809 |
| Jope, John W. | Philadelphia, Pa. | Shot, manufacturing | July 17, 1809 |
| Janes, Walter | Ashford, Ct. | Weaving machine | Feb. 16, 1810 |
| Do | Do | Winding spools and bobbins for weaving | Aug. 20, 1810 |
| Do | Do | Loom | Sept. 1, 1810 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Jones, Noel | Madison co., N. Y. | Flax and hemp, spinning, reeling, and spooling | Mar. 14, 1812 |
| Ives, Ira | Bristol, Ct. | Fur from skins, cutting | May 19, 1812 |
| James, Wm. T. | Greenwich, N. Y. | Files, machine for cutting | Nov. 19, 1812 |
| Jessup, John | Orange co., N. Y. | Cloth, carding | Feb. 6, 1813 |
| Janes, Walter | Ashton, Ct. | Loom, domestic and factory | Mar. 20, 1813 |
| Jackson, Cyrus | Butternuts, N. Y. | Files, machine for making and cutting | May 28, 1813 |
| Janes, Alfred | Hartford, Ct. | Boots, &c., tassels and cords | March 1, 1813 |
| Jenks, Ebenezer | Colebrook, Ct. | Fish hooks, steel card teeth, elastic, making and using, and converting iron into steel | Nov. 13, 1813 |
| Ives, Ira | New Haven, Ct. | Machine for holding buttons fast while polishing | June 18, 1814 |
| Jackson, William | Burlington, N. J. | Fur from peltry, machine for cutting | Feb. 2, 1815 |
| Do | Do | Do do do pulling | Feb. 2, 1815 |
| Janes, Walter, and David Bolles | Ashford, Ct. | Heddles for weaving, metallic | April 26, 1815 |
| Jelleffs, Joseph | Butternuts, N. Y. | Loom | May 24, 1815 |
| Jillson, Asa | Dorchester, Mass. | Spindle for spinning | May 27, 1815 |
| Do | Roxbury, Mass. | Spindle and flyer | July 17, 1815 |
| Ives, Ira | Bristol, Ct. | Buttons, smoothing and rounding the edge of metal | Aug. 7, 1815 |
| Do | Do | Buttons, cast in moulds, constructing eyes for metal | Aug. 7, 1815 |
| Do | Do | Buttons, setting eyes of metal in the mould | Aug. 7, 1815 |
| Jackson, Robert | Attleborough, Pa. | Loom | July 23, 1816 |
| Josselyn, Charles | Pembroke, Mass. | Anvil and hammer | Oct. 9, 1816 |
| Jenkins, Gudley | Plymouth co., Mass. | Brad and sprig machine | May 16, 1817 |
| Jenks, Eb. | Colebrook, Ct. | Steel, converting iron partially into | Jan. 28, 1818 |
| Jackson, Cyrus | Otsego co., N. Y. | Auger for boring square holes | Feb. 14, 1818 |

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|---|---|---|---|
| Jones, Samuel | Bridgeport, Pa. | Hat rounder and gauge | June 2, 1819 |
| Iwain, Wm. W. | New Bedford, Mass. | Candles, moulding sperm | Jan. 14, 1820 |
| Ives, Thayler | Chillicothe, O. | Candlewick machine | May 17, 1820 |
| Jarvis, Deming | Boston, Mass. | Moulds, machine for opening glass blowers' | Feb. 2, 1821 |
| Jennings, Thomas L. | New York | Cloths, dry scouring for | Mar. 3, 1821 |
| Jones, Francis | Do | Quill winding machine | May 23, 1821 |
| Jennings, Isaiah | Do | Cable, chain | Oct. 29, 1821 |
| Jordan, David C. | New York | Saw setter | Dec. 2, 1822 |
| Ives, Ira | Bristol, Ct. | Combs, hair, manufacturing | April 5, 1823 |
| Joye, Ezra | Brooklyn, N. Y. | Hatters' planking kettle | June 6, 1825 |
| Judson, Levi C. | Waterville, N. Y. | Punch, rivet, and screw cutter | Nov. 18, 1825 |
| Janes, Walter | Ashford, Ct. | Tire bending | June 19, 1826 |
| Jenks, A., & J. Clewell | Holmesburg, Pa. | Temples, spring | Mar. 19, 1827 |
| Janes, Walter | Ashford, Ct. | Tire bending | July 14, 1827 |
| Jones, William | Thornville, O. | Spinner, family | July 27, 1827 |
| Jones, Thomas | Glastonbury, Ct. | Hammers, cast iron | July 31, 1828 |
| Johnson, Wm. M. | New York | Types, casting printers' | Aug. 21, 1828 |
| Judge, John | Washington, D. C. | Cables, machine for proving hemp and chain | Nov. 29, 1828 |
| Jarvis, Denning | Boston | Glass, moulding, &c. | Dec. 1, 1828 |
| January, John | Greenville, Ky. | Reeding or fluting, straight or spiral, machine for | Mar. 3, 1829 |
| Jennings, Isaiah | New York | Knife renovator | Mar. 17, 1829 |
| Johnson, Israel, jr. | Moriah, N. Y. | Wheel and rest | May 1, 1829 |
| Jarvis, Denning | Boston, Mass. | Glass knobs and screws | June 13, 1829 |
| Jackson, William | Philadelphia, Pa. | Pencil, ever-pointed, construction | July 27, 1829 |
| Kirk, Timothy, & Bob Leslie | Yorktown, Pa. | Wire weaving | May 9, 1792 |
| Kellogg, Samuel | Vermont | Wool and cloths, shearing | Jan. 31, 1795 |
| Kersey, Jesse | Pennsylvania | Nails, cutting and heading | Feb. 24, 1797 |
| Kent, Nathan | New York | Hoops, nails cut from | May 1, 1801 |
| Kimball, Increase | New Hampshire | Nails, brads, and sprigs | May 1, 1805 |
| Kellogg, Friend B. | Marlborough, Mass. | Woollen and other cloths, machine shearing | Nov. 22, 1805 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Kennion, John | Dutchess co., N. Y. | Mill, fulling and washing | Mar. 26, 1806 |
| Kinsey, Charles | Essex, N. J. | Paper making | May 8, 1807 |
| Kies, Mary | Killingly, Ct. | Straw, weaving with silk or thread | May 5, 1809 |
| Kellogg, George C. | New Hartford, Ct. | Cloth, shearing | Mar. 4, 1811 |
| King, Benjamin | Washington City, D. C. | Steel or bar iron, mode of welding by pit coal, without the use of charcoal | Nov. 15, 1811 |
| Kennedy, Walter | Frankfort, Ky. | Cloth, shearing | June 12, 1812 |
| Kimball, Arthur | New York | Carding hair of neat cattle | Nov. 4, 1813 |
| King, Benjamin | Washington City, D. C. | Slates, horizontal machine for making holes in | May 29, 1817 |
| Kello, Jos., and James Carter | Philadelphia | Nails, manufacturing | June 10, 1817 |
| Kendall, Jonas | Leominster, Mass. | Yarn, bleaching cotton and linen | Aug. 22, 1817 |
| Keintzle, George | Montgomery co., Pa. | Bleaching | Oct. 8, 1818 |
| Keplinger, Samuel | Baltimore | Watch chains, machine for making | May 4, 1820 |
| Kemball, Ephraim | Fitchburg, Mass. | Scythes, manufacturing | Jan. 17, 1822 |
| Knox, Z., & W. Hoskins | Louisville, N. Y. | Wool and cotton, roping and spinning | Aug. 16, 1824 |
| Kellsey, Franklin | Middletown, Ct. | Cordage machinery | Feb. 8, 1825 |
| Kendall, William, jr. | Kennebec, Me. | Saw, circular | May 18, 1826 |
| Krauser, Joseph | Philadelphia | Nail machine | Sept. 23, 1826 |
| Knowles, Hazard | Colchester, Ct. | Stocks, cast iron plane | Aug. 24, 1827 |
| Kellogg, Isaac, & Geo. C. Kellogg | New Hartford, Ct. | Cloth, machine for shearing | April 7, 1828 |
| Kidder, Jonathan | Gorham, Me. | Saw for clapboards, circular | Oct. 11, 1838 |
| Korn, Henry | Philadelphia | Fly net for horses | Sept. 12, 1829 |
| Livingston, R. R. | Clermont, N. Y. | Spindles, diminishing the friction of | Aug. 4, 1791 |

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|---|---|---|---|
| Leslie, Rob. | Philadelphia | Bells | Feb. 2, 1793 |
| Livingston, Robert R. | New York | Paper, manufacturing | Oct. 28, 1799 |
| Ladd, Jer. | New Hampshire | Machine, beaming | July 17, 1801 |
| Leslie, William | Do | Nail machine | Nov. 5, 1801 |
| Langstroth, Thomas | Buck's county, Pa. | Paper making | May 1, 1804 |
| Lester, Ebenezer | Herkimer, N. Y. | Moulds for casting iron screws | May 10, 1805 |
| Lester, Ebenezer | Little Falls, N. Y. | Do do trundleheads | Feb. 12, 1827 |
| Langdon, Barnabas | St. Alban's, Vt. | Tin ware, manufacturing | May 10, 1827 |
| Lainhart, Henry, jr. | Baltimore, Md. | Hat manufacturing | July 6, 1809 |
| L'Hommedieu, Ezra | Saybrook, Ct. | Auger, double podded centre screw | July 31, 1809 |
| Lloyd, Robert | Philadelphia, Pa. | Loom for weaving girth and cloth | Feb. 8, 1810 |
| Lorillard, Peter | New York | Tobacco, manufacturing | April 25, 1810 |
| Laighton, Mark | Portsmouth, N. H. | Rollers for sheaves of blocks | Mar. 14, 1810 |
| Lester, Eb. A. | Herkimer, N. Y. | Nail cutting machine, vertical balance wheel | May 8, 1811 |
| Larnabee, Lebbius | Nantucket, Mass. | Boxes for pulleys, casting metallic | Nov. 4, 1811 |
| Leonard, Enoch | Canton, Mass. | Steel, converting pig iron into | Jan. 6, 1812 |
| Ludlum, James M. | New York | Shot, turberlated cylinder | Aug. 3, 1813 |
| Lutgen, Henry | Marietta, Pa. | Nails, machine for cutting | Sept. 8, 1813 |
| Lester, Eb. A. | Herkimer, N. Y. | Nail cutting machine, vibrating | April 2, 1814 |
| Love, John | Baltimore | Cup and saucer, metallic, Columbia | June 14, 1814 |
| Lovel, Y. C., and P. T. Jackson | Boston | Loom | Feb. 23, 1815 |
| Lawrence, William | Meriden, Ct. | Button, lathepin for turning wire-eyed | April 12, 1815 |
| Lerned, Samuel | Watertown, Mass. | Wool, roping and spinning | Aug. 3, 1815 |
| Lester, Eb. A. | Baltimore, Md. | Nail machine, cylindrical vibrating | Dec. 27, 1815 |
| Lee, David | Guilford, Ct. | Wheel heads | May 6, 1816 |
| Littleboy, Manly J. | Philadelphia | Comb teeth, cutting | May 28, 1816 |
| L'Hommedieu, Ezra | Norwich, Ct. | Auger, single twist | July 17, 1816 |
| Lothian, Geo. B. | New York | Type moulds | Dec. 18, 1816 |
| Lewis, Nathan | Canandaigua, N. Y. | Wheel, small spinning | Mar. 29, 1817 |
| Lee, Martin | Otsego, N. Y. | Mill, fulling | Nov. 6, 1817 |

## LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Langworthy, Wm. A. | Ballstown, N. Y. | Combs, metallic hair | Feb. 28, 1818 |
| Long, James | Maryland | Hats, napping | Aug. 5, 1799 |
| Lewis, Nathaniel H. | New York | Sheaves for blocks | Aug. 26, 1818 |
| Leonard, William B. | Fishkill, N. Y. | Spindle and bobbin for spinning cotton | Jan. 9, 1819 |
| Leonard, William B. | Do | Cordage machine | Jan. 9, 1819 |
| Lamb, Joshua | Leicester, Mass. | Card machines, packing sheets of leather used on cylinders of | Aug. 21, 1819 |
| Lymar, Anthony | New York | Bell hanging | Dec. 24, 1819 |
| Langdon, Reuben | Hartford, Ct. | Thread packing | June 20, 1821 |
| Lewis, Charles, and C. Taylor | Poughkeepsie, N. Y. | Throstle spindle | June 26, 1822 |
| Leman, Eb., jr. | Boston, Mass. | Locks | Nov. 28, 1822 |
| Losey, Eleazer L. | New Brunswick, N. J. | Iron into steel, converting | Nov. 20, 1823 |
| Lewis, Joseph L. | New York | Ornamental borders, casting | Oct. 8, 1824 |
| Lynch, James | Pulaski, Ten. | Screw cutter, wooden | Dec. 12, 1825 |
| Leonard, William B. | Fishkill, N. Y. | Loom power | May 23, 1827 |
| Leonard, William B. | Do | do do by taking up the cloth uniformly | May 23, 1827 |
| Lapham, Benjamin | Queensbury, N. Y. | Spinner for wool | June 29, 1827 |
| Lamb, Joshua | Leicester, Mass. | Teeth, cutting card | Aug. 1, 1827 |
| Leslie, David | New York | Frame chain | Nov. 19, 1827 |
| Lanuza, C. | Do | Paper ruling | Aug. 13, 1828 |
| Lamson, Silas | Sterling, Mass. | Scythe sneath | Dec. 29, 1828 |
| Lambert, Samuel | Hanover co., Va. | Combs, forming and shaping | Jan. 9, 1829 |
| Longarrecker, S., and Charles Myers | Lancaster county, Pa. | Plane, groove | Feb. 7, 1829 |

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| Levally, William | Canterbury, Ct. | Loom, figure cloth | Mar. 20, 1829 |
| Lapham, Benja'n, and E. Cady | Canaan, N. Y. | Hat bodies, constructing | April 15, 1829 |
| Longsbury, Jno. D., Jno. Arnold, John A. McClean, & G. G. Bishop | Norwalk, Ct. | Felting and fulling machine | July 15, 1829 |
| Mulliken, Samuel | Philadelphia | Machine for raising nap on cloth | Mar. 11, 1791 |
| Morse, David | Massachusetts | Hinges, machine for making | June 10, 1803 |
| Minor, Amos | - - | Wheel, spinning | Nov. 16, 1803 |
| Melville, Sam'l Roger | Otis, Mass. | Rolling iron and cutting nails | Dec. 7, 1803 |
| Morrison, Michael | New Bedford, Mass. | Oakum, machine for picking | Feb. 14, 1806 |
| McIlwham, Thomas | Princeton, R. I. | Mould for casting sheathing nails | Oct. 6, 1806 |
| Miller, William | New York | Candle dipping machine | Jan. 6, 1809 |
| Moss, Moses | Farmington, Ct. | Combs, hair | Jan. 10, 1809 |
| Minor, Amos | Marcellus, N. Y. | Heads, spinning wheel | April 11, 1810 |
| Mathews, Heman | Delaware | Cloth, machine for shearing | May 15, 1810 |
| Miller, William | New York | Nail cutting and heading | Sept. 26, 1810 |
| Mussy, George C. | Philadelphia, Pa. | Water loom | Mar. 4, 1811 |
| Molleneux, Jesse | Hempstead, N. Y. | Cloth, shearing | April 28, 1811 |
| Morrison, Michael | Boston, Mass. | Picker, wool | Aug. 15, 1811 |
| Miller, Nathaniel, and Philip W. Miller | Franklin, Mass. | Weaving machine | Aug. 20, 1811 |
| May, Samuel | Columbia, Pa. | Seine for taking shad | Jan. 11, 1812 |
| Messer, Frederick | Guildhall, Vt. | Hats, composition of materials for making | Jan. 23, 1812 |
| Mathes, James | Barre, Vt. | Nap on cloth, machine for raising | May 27, 1813 |
| Melne, Alexander, and Daniel S. Deane | Clinton, N. Y. | Cotton by steam, bleaching | July 14, 1813 |
| Moore, Richard | Lycoming, Pa. | Nail cutting | Jan. 13, 1814 |
| McThorndike, John | - - - | Paper, manufacturing, in using pelts | March 7, 1814 |
| Mead Benjamin, and Giles Richards | Bristol, Mass. | Dies of metals | July 2, 1814 |

## LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Morse, Moses L. | Boston, Mass. | Pins of wire, at one operation, making | Aug. 22, 1814 |
| Mervin, Daniel, and Horace Killogg | Hudson, N. Y. | Cloth, machine for napping | Oct. 28, 1814 |
| Merian, Lauren | New Haven, Ct. | Buttons, &c., lathe for turning and polishing | Jan. 4, 1815 |
| Mason, John | | Screws, machine for cutting and heading | Mar. 30, 1815 |
| Mathews, Anson | Southington, Ct. | Button moulds, wooden | April 26, 1815 |
| Mestayer, Benjamin | New York | Paper, cloth, &c., staining and printing | June 28, 1815 |
| Mathews, Heman | Southington, Ct. | Buttons, machine for making wireneck metal | Sept. 12, 1815 |
| Mathews, Heman | Do | Buttons, in finishing metal | Sept. 12, 1815 |
| Moody, Paul | Boston, Mass. | Yarn from bobbins, winding | Mar. 9, 1816 |
| Mead, John | Albany, N. Y. | Chair, reclining | Mar. 18, 1816 |
| Marshall, Benjamin, & Dearborn Johnson | Concord, N. H. | Fur cutting and cloth shearing machine | Dec. 7, 1816 |
| Mead, John | Albany, N. Y. | Chair, convalescent | Mar. 13, 1817 |
| Mead, John | Do | Couch, accommodation | Mar. 14, 1817 |
| McCluer, Heman | Homer, N. Y. | Nail manufacturing | April 18, 1817 |
| Mussey, Thomas | New London, Ct. | Loom, water | June 10, 1817 |
| Moody, Paul | Waltham, Mass. | Cloth, sizing and dressing | Jan. 17, 1818 |
| Mason, Silas | Norfolk, Mass. | Hats, manufacturing | Feb. 20, 1819 |
| Moody, Paul | Boston, Mass. | Speeder, double | April 3, 1819 |
| Mudge, Isaac, and Milo Hatch | Sherburne, N. Y. | Spinning wheel head | April 10, 1819 |
| Moody, Paul | Boston, Mass. | Cotton, frame for spinning | May 6, 1819 |
| Mussey, Thomas | New London, Ct. | Gridiron, guttered | Mar. 6, 1820 |
| Moody, Paul | Waltham, Mass. | Speeder, double | Dec. 30, 1820 |

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| Moody, Paul | Boston, Mass. | Cotton, roping and roving | Jan. 19, 1821 |
| Moody, Paul | Do | Do do do | Feb. 19, 1821 |
| Moody, Paul | Do | Speeder, double | Feb. 19, 1821 |
| Moody, Paul | Do | Spinning frame, cotton | Feb. 19, 1821 |
| Morgan, James | Baltimore | Warping and dressing cotton goods | April 5, 1821 |
| Morgan, Thomas | Hampstead, N. Y. | Nail manufacturing | Sept. 5, 1821 |
| Mestayer, Benjamin | New York | Boxes, machine for cutting band | Nov. 13, 1821 |
| McNamara, Charles | North Bridge, Mass. | Scythes | Jan. 30, 1822 |
| Maltby, Benjamin | New York | Loom, domestic | April 13, 1822 |
| Mason, David H. | Philadelphia | Plates for engraving and printing, metallic | May 17, 1822 |
| McNamara, Charles | North Bridge, Mass. | Scythes, finishing | Jan. 31, 1823 |
| Morgan, Thomas | Patterson, N. J. | Nail machine, self feeding | June 17, 1824 |
| Morse, Solomon | Sempronius, N. Y. | Saw sharpener | April 26, 1824 |
| Merrill C., C. Batchellor, and S. King, jr. | Lowville, N. Y. | Spinner, horizontal | July 3, 1824 |
| Manchester, Job | Warwick, R. I. | Tube, bobbin | Dec. 13, 1824 |
| Macauley, Isaac | Philadelphia | Oil cloth | April 4, 1825 |
| Miner, Amos | Camillus, N. Y. | Milk pans | July 20, 1825 |
| Marsh, Stephen | Fairfax, Va. | Napping cloth | July 20, 1825 |
| Meredith, Jos. | Lebanon, Pa. | Tire bending | Sept. 9, 1825 |
| McClintic, Jno., and Geo. Faber | Chambersburg, Pa. | Paper cutting machine | Dec. 18, 1825 |
| Maccomber, L. L. | Bath, Me. | Hats, machinery, planking wool | Dec. 31, 1825 |
| Mason, David H. | Philadelphia | Ornamental rolls and stamps for book-binders | Jan. 26, 1826 |
| Matthews, Jas. | Schenectady, N. Y. | Jenny, vertical | May 2, 1826 |
| Metcalf, Silas | Wilmington, Vt. | Chisel bearded mortising machine | Jan. 17, 1827 |
| Myerle, David | Philadelphia | Rope layer, combined jack and breastwork | Mar. 3, 1827 |
| McClintic, Jno. | Chambersburg, Pa. | Paper, machine for trimming | Mar. 31, 1827 |
| Mayhew, Truman F. | Boston | Hats, bowing, gearing of cones for | Aug. 22, 1827 |
| McDonald, John | New York | Fur, separating hair from | Sept. 11, 1827 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Mason, D. H. and M. W. Baldwin | Philadelphia | Biting the figures on steel cylinders for printing calicoes | Oct. 30, 1827 |
| Moore, Jefferson | Leverett, Mass. | Lathe, turning | Jan. 19, 1828 |
| Magaw, Wm. | Meadville, Pa. | Paper, manufacturing | March 8, 1828 |
| Mitchell, Rd., and Nathaniel Butterworth | Troy, Mass. | Loom, sattinet power | June 22, 1828 |
| Marble, Luke | Henrietta, N. Y. | Knives for cutting sole leather, sett of | Mar. 28, 1828 |
| McCall, Wm. R. | Vincennes, Ind. | Wool and cotton from the roll, spinning | May 12, 1828 |
| Magaw, Wm. | Meadville, Pa. | Paper, preparing hay, straw, &c., for manufacturing | May 22, 1828 |
| Mustin, Eb. | Philadelphia | Combs, ornamenting | June 27, 1829 |
| Nevill, Jona. | Massachusetts | Nails, cutting and heading | Aug. 12, 1797 |
| Nichols, Jona. | Rhode Island | Nail machine, wrought | July 11, 1807 |
| Nichols, Daniel | New Milford, Ct. | Bow-spring for hatters | Mar. 1, 1809 |
| Nicholson, Jno. | Herkimer, N. Y. | Screws, casting metal | April 28, 1810 |
| Nichols, Perkins | Boston, Mass. | Auger, mining | May 18, 1811 |
| Newton, Martin | Fitchburg, Mass. | Flyer for spinning cotton | Sept. 28, 1812 |
| Norton, Theo., and Geo. Biddis | Milford, Pa. | Carding, spinning and roping machine | April 15, 1813 |
| Noble, David | Philadelphia | Tin plate making | May 9, 1814 |
| Nelson, Martin | Do | Suspenders | Oct. 17, 1814 |
| Norton, Jno. | Southington, Ct. | Button moulds, manufacturing wooden | June 13, 1816 |
| Newhall, Tim., jr. | Essex county, Mass. | Nails, manufacturing | Sept. 7, 1816 |
| Noble, Roswell | Baltimore | Nails, machine for cutting | Dec. 17, 1816 |
| Newhall, Tim., jr. | Lynn, Mass. | Ruling double machine | Dec. 26, 1816 |
| Northorp, Isaac | Oneida county, N.Y. | Nails, cutting and heading | Jan. 7, 1817 |

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| Noyes, David E. | Philadelphia, Pa. | Combs, machine for twinning horn and tortoise shell | Sept. 6, 1817 |
| Nash, Sylvester | Harper's Ferry | Gun barrels, turning | April 11, 1818 |
| North, Lymes | Otsego, N. Y. | Combs, metal hair | May 28, 1818 |
| Noble, Roswell | Baltimore | Sprigs, nails, and brads, manufacturing | May 17, 1819 |
| Noyes, David E. | Philadelphia | Comb cutting machine | Oct. 14, 1819 |
| Northorp, M. W., and R. R. Dillon | Newton, N. J. | Cloth, fulling | Dec. 4, 1823 |
| Norcross, Leonard | Livermore, Me. | Nail machine, wrought | May 18, 1824 |
| Nones, Jos. B. | Philadelphia, Pa. | Nankeen, making yellow and buff colors | April 28, 1825 |
| Newton, S. | Washington, D C. | Spectacles and single eye-glasses | Dec. 22, 1827 |
| Nelson, Wm. | Batavia, N. Y. | Wringing dyes, &c. out of cloths, called the spiral curvilinear compressor | Nov. 13, 1828 |
| Norris, M. R., and L. Phillips | Covington, N. J. | Cloth napping | Mar. 22, 1829 |
| Osborn, Levi | Fairchild | Fulling mill, double crank | July 12, 1804 |
| Owings, Jno. | Baltimore | Flax and hemp, preparing, for spinning | March 5, 1812 |
| Do | Do | Roller, impressed, for making knives, forks, &c. | Jan. 25, 1814 |
| Orth, C. H., and Fred. Strohn | Steubenville, O. | Cloth, machine for shearing | Oct. 11, 1814 |
| Osborne, Horace, and Wm. L. Fraser | - | Cloth, shearing | April 25, 1816 |
| Olney, James | Westmoreland, N. Y. | Cloth, teaseling | Mar. 29, 1817 |
| Otis, Melville | Boston, Mass. | Nails, manufacturing | Dec. 31, 1817 |
| Oakley, Geo. P. | Poughkeepsie, N. Y. | Box, sample | Nov. 25, 1818 |
| Odiorne, Thomas | Morgan, Mass. | Nail machine, improvement on Reed's | April 3, 1829 |
| Orndorff, Jno. | Russelville, Ky. | Wool, spinning | Nov. 10, 1829 |
| Parkinson, George | Philadelphia, Pa. | Flax and hemp, spinning | Mar. 17, 1791 |
| Pollard, Wm. | Do | Cotton, spinning | Dec. 30, 1791 |
| Perkins, Thomas | Pennsylvania | Nail machine | Feb. 7, 1794 |
| Perkins, Jacob | Boston, Mass. | Nail cutting | Jan. 16, 1795 |
| Pittman, John | Rhode Island | Cordage, manufacturing | May 25, 1795 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Person, Josiah G. | New York | Nail cutting | Mar. 23, 1794 |
| Parkinson, George | Pennsylvania | Cordage, manufacturing | June 16, 1794 |
| Perkins, Jacob | - - - | Nail machine | Feb. 14, 1799 |
| Pratt, Phineas | Connecticut | Comb making machine | April 12, 1799 |
| Pittman, John | Rhode Island | Rope yarn, spinning | Dec. 24, 1899 |
| Pettibone, Daniel, Ezra Chapman, and Josiah Nicholas | Albany, N. Y. | Steel, welding, to iron | Dec. 22, 1802 |
| Pettibone, Daniel | Roxbury, Ct. | Cast steel to iron, welding | Mar. 22, 1806 |
| Pitkin, Joseph, & Tim. Kimball | Hartford, Ct. | Hats, machine for planking, and making cloth without yarn | Oct. 19, 1807 |
| Pierson, Jer. H. | Ramapo Works, N. Y. | Hoop and sheet iron, manufacturing | Dec. 24, 1807 |
| Pierson, Isaac | New York | Mill, rolling and slitting | Dec. 24, 1807 |
| Pratt, Phineas | Saybrook, Ct. | Combs, machine for making | Mar. 5, 1808 |
| Pitkin, Roswell | East Hartford, Ct. | Hats, manufacturing without bowing | April 23, 1808 |
| Parmerlea, Marcus B. | Newtown, Ct. | Ratchet wheel | Sept. 21, 1808 |
| Parke, James P. | Philadelphia, Pa. | Bells for fire engines | Dec. 19, 1808 |
| Pope, John W. | Do | Shot, manufacturing | July 17, 1810 |
| Perkins, Jacob | Boston, Mass. | Nails and brads, cutting | July 17, 1810 |
| Parsons, Eli | Bristol, Ct. | Comb, called the socket hair comb | Aug. 16, 1810 |
| Parsons, Seth | Parsonfield, Mass. | Knife, currier's | Oct. 25, 1810 |
| Pond, William | Wrentham, Mass. | Straw, wove plait | Feb. 28, 1811 |
| Palmerler, Herman | Shoreham, Vt. | Carding machine | May 25, 1811 |
| Perry, Nathaniel | Boston, Mass. | Looms | Sept. 25, 1811 |

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| Phelps, John | Manlius, N. Y. | Do | Aug. 27, 1812 |
| Partarrien, John B. | New York | Snuff cutter or grater | Nov. 30, 1812 |
| Peabody, William H. | Woodbury, Ct. | Wheel heads | Dec. 14, 1812 |
| Perkins, Jacob | Newburyport, Mass. | Screw shank machine | Mar. 23, 1813 |
| Do | Do | Locks for bank vaults | Mar. 23, 1813 |
| Pettibone, Dan. | Philadelphia, Pa. | Plane irons, scythes, &c. | May 6, 1813 |
| Pettee, Simeon | Foxborough, Mass. | Looms, beam for | June 15, 1813 |
| Perkins, Jacob | Newburyport, Mass. | Spoons, making | June 29, 1813 |
| Pie, William | New York | Locks, | Aug. 5, 1813 |
| Powell, Thomas | Do | Cylinder, multiplying hollow | Aug. 3, 1813 |
| Pettibone, Daniel | Philadelphia, Pa. | Guns, pistols, &c., twisted screw auger for boring | Feb. 12, 1814 |
| Platt, Charles & Daniel | Sharon, Ct. | Files, cutting | Mar. 7, 1814 |
| Pulsifer, John | Newbury, Mass. | Combs, lanterns, and machine for slitting horn, &c. | May 24, 1814 |
| Porter, Aaron, James Mead, and Jas. Stedwall | Queensbury, N. Y. | Stocking, machine for knitting | July 31, 1815 |
| Phillips, Chas., jr. | Sackett's Harbor, N. Y. | Nails, manufacturing | Oct. 21, 1815 |
| Perkins, Jacob | Newburyport, Mass. | Nail cutter, improvement in his cylindrical, of January 16, 1815 | Nov. 1, 1815 |
| Price, William | Pennsylvania | Glass making | Mar. 4, 1816 |
| Do | Pittsburg, Pa. | Glass composition | April 30, 1816 |
| Paddeford, Peter | Lyman, N. H. | Wool and cotton spinning | May 18, 1816 |
| Parmele, Samuel | Saybrook, Ct. | Comb machine, shell and horn | July 15, 1816 |
| Porter, Aaron | Queensbury, N. Y. | Loom, stocking | Aug. 22, 1816 |
| Perkins, Jacob, & Thos. Gilpin | Philadelphia, Pa. | Paper water marks | Dec. 18, 1816 |
| Pitman, John | Medford, Mass. | Yarn spinner, effeminate for rope | Mar. 14, 1817 |
| Parsons, Bishop A. | New York | Cloth, napping, woollen | April 16, 1817 |
| Pettibone, Daniel | Philadelphia, Pa. | Comb cutting machine | April 10, 1818 |
| Pye, William | New York | Locks | April 28, 1818 |
| Do | Do | Locks, union | April 28, 1818 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Pettibone, Daniel | Philadelphia, Pa. | Combs, manufacturing | Aug. 11, 1818 |
| Prescott, Levi and Jed. | Pittsburg, Pa. | Cloth, napping | Nov. 5, 1818 |
| Parsons, Seth | Hosack, N. Y. | Cloth, shearing | Mar. 2, 1819 |
| Peck, Seth | Southington, Ct. | Ware, machine for making tin | April 23, 1819 |
| Pettibone, Daniel | Boston, Mass. | Cast steel to iron, welding | Aug. 21, 1819 |
| Do | Philadelphia, Pa. | Balls and shot of lead, casting | Nov. 10, 1819 |
| Pignatelle, John B. | New York | Paper, machine for making | Dec. 2, 1819 |
| Pierson, Jer. H., and J. H. Simmons | Hampstead, N. Y. | Weaving, art of | Dec. 31, 1819 |
| Pool, Daniel | Zanesville, O. | Nail machine | Mar. 22, 1820 |
| Pye, William | New York | Andirons | Nov. 16, 1821 |
| Prouty, Russel | Spencer, Mass. | Wire, drawing card and other | Jan. 19, 1822 |
| Prince, William A. | New York | Carpeting, ingrain | Feb. 12, 1823 |
| Patterson, A., and F. Burdock | Delaware, co., N. Y. | Wool and cotton, roping and spinning | Sept. 29, 1824 |
| Price, Francis | New York | Wool and cotton spinner | Oct. 5, 1824 |
| Pool, D., & A. Copeland | Philadelphia, Pa. | Spinner, family | Dec. 24, 1824 |
| Pratt, Philo | New York | Comb teeth, machine for sawing | April 20, 1825 |
| Perry, Sanford L. | Do | Pans of stone ware, milk | Sept. 9, 1825 |
| Pratt, Philo | Do. | Cutting ivory teeth | Sept. 9, 1825 |
| Pettee, Simon | Foxborough, Mass. | Bonnets, pressing straw | Sept. 14, 1825 |
| Pratt, Philo | Meriden, Ct. | Vice used in cutting combs | Nov. 22, 1825 |
| Palmer, Freeman | Littleton, N. H. | Knife, currying | Mar. 17, 1826 |
| Parkhurst, Ziba | Grafton, Mass. | Composition applied before carding | Aug. 19, 1826 |
| Price, William | Pitt, Pa. | Commode knob, mode of fastening | Nov. 14, 1826 |

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| Patrick, William | Leverett, Mass. | Turning lathe | April 24, 1827 |
| Petre, Michael | Womelsdoff, Pa. | Fur, machine for cutting | Dec. 20, 1827 |
| Pratt, Linus, and F. Bush | Meriden, Ct. | Ivory, machine for junking | Feb. 9, 1828 |
| Pratt, Philo | Do | Combs, machine for grailing | Feb. 12, 1828 |
| Do | Do | Vice for slitting ivory | Feb. 12, 1828 |
| Post, Calvin | Springport, N. Y. | Boilers, bending sheet iron for steam | Mar. 11, 1828 |
| Post, James A. | Warwick town'p, N. Y. | Bobbin machine | April 23, 1828 |
| Penny, Edward | Adams, N. Y. | Spinner, domestic | June 27, 1828 |
| Pennell, James, and Haber Maxon | Barbourville, Va. | Cotton picker | Oct. 10, 1828 |
| Peterson, George F. | New York | Types, machine for casting | Oct. 13, 1828 |
| Perry, Luke N. | Worcester, Mass. | Drum, soldering, straightening factory | Jan. 23, 1829 |
| Pond, Alson | Petersburg, Va. | Twine machine, Pond's cotton | April 21, 1829 |
| Pike, Samuel | Providence, R. I. | Combs, snuff boxes, &c., from raw or green hides | June 11, 1829 |
| Peck, N., & D. Taylor | Fairfield co., Ct. | Cloth without spinning or weaving, manufacturing | June 27, 1829 |
| Powers, Jona. | Lansingburg, N. Y. | Grid iron | Aug. 10, 1829 |
| Prindle, Lewis B., & T. Curtis | Newtown, Ct. | Combs, rubbing down and polishing | Oct. 10, 1829 |
| Philips, Augustus | Marlborough, Ct. | Bit stocks, composition | Oct. 10, 1829 |
| Patterson, James | Pittsburg, Pa. | Lock knob, spiral spring | Oct. 19, 1819 |
| Pope, Stephen | New York | Steel, carbonated, from wrought iron | Nov. 20, 1829 |
| Putnam, Elijah | Gardiner, Me. | Lathe, turning | Dec. 9, 1829 |
| Robotham, Richard | New York | Candles, manufacturing | June 2, 1794 |
| Rentgin, Clem. | Pennsylvania | Bolts and bars, forging | Nov. 17, 1796 |
| Reid, Nathan | Massachusetts | Nails, cutting and heading | Jan. 28, 1798 |
| Reed, Jesse | Do | Nails from heated rods | June 9, 1801 |
| Robotham, Richard | New York | Paper ruling machine | Oct. 10, 1801 |
| Reed, Jesse | Massachusetts | Nails, rolling iron for | July 15, 1801 |
| Ruggles, Lazarus | - - | Nail machine | Oct. 18, 1803 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Rogers, Sam., & Melville Otis | Massachusetts | Nails, cutting and rolling iron | Dec. 7, 1803 |
| Robinson, George W. | Providence, R. I. | Buttons, manufacturing | Mar. 24, 1804 |
| Reed, Jesse | Boston, Mass. | Nail cutting and heading machine | Feb. 22, 1807 |
| Rogers, Samuel | Plymouth, Mass. | Nail heading machine | Dec. 15, 1807 |
| Reeve, Joseph | Newburg, N. Y. | Whips, twisted whale bone | April 25, 1808 |
| Rider, Daniel | New York | Oakum, making | April 26, 1808 |
| Reed, Jesse | Kingston, Mass. | Nails, wheel for cutting and heading | April 15, 1809 |
| Robinson, George W. | Providence, R. I. | Lathe, securing button in a | June 27, 1809 |
| Ross, William | Chester co., Pa. | Lathe, turning | July 10, 1809 |
| Reid, Briggs R. | Danvers, Mass. | Nail cutting machine | Mar. 8, 1810 |
| Rentgen, Clem. | West Chester, Pa. | Bolts, rolling iron for ships | June 27, 1810 |
| Rogers, George A. | Newburyport, Mass. | Hinges, cast, or making them of metal in a fluid state | July 3, 1810 |
| Ruggles, Levi | Boston, Mass. | Threads and quills of the shuttle for weaving, winding the | Aug. 16, 1810 |
| Reid, Briggs R. | Salem, Mass. | Nails, cutting and heading | Aug. 18, 1810 |
| Reid, Upton | Joppa × Roads, Md. | Shovels, swagging and setting | Aug. 31, 1810 |
| Reed, Jesse | Kingston, Mass. | Nails, cutting and heading | Sept. 16, 1810 |
| Rewey, John | Berkshire, N. Y. | Bolts, machine for cutting off the ends of | May 8, 1811 |
| Righter, Jonathan | Downingtown, Pa. | Shovels, sacket and sand | July 23, 1811 |
| Reed, Jesse | Kingston, Mass. | Nails, cutting and heading | Aug. 14, 1811 |
| Read, Daniel | Brookfield, N. Y. | Spinner, pleasant | Sept. 10, 1811 |
| Reeve, Mark, and Rd. Reeve | Philadelphia, Pa. | Nail machine, hot heading | Nov. 14, 1811 |
| Rogers, Rd. C. | Maine | Loom | Nov. 29, 1811 |

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|---|---|---|---|
| Raymond, Ephraim | Norton, Mass. | Cotton, wool, picking machine | Jan. 18, 1812 |
| Rood, Job | Canterbury, Ct. | Weaving | Jan. 23, 1812 |
| Reeve, Mark and Rd. | Burlington, N. J. | Nail manufacturing | Feb. 3, 1812 |
| Robinson, George W. | New Haven, Ct. | Moulds for casting metal buttons | May 14, 1811 |
| Rogers, Richard C. | Maine | Loom, improvement in | Nov. 29, 1811 |
| Do | Do | Do do in Rogers' | June 23, 1812 |
| Reeve, Mark, and Rd. | Burlington, N. J. | Hinge, elliptical | Oct. 31, 1812 |
| Do | Do | Nail machine | Oct. 31, 1812 |
| Robinson, George W. | Attleborough, Mass. | Nail, brass, copper, and composition, manufacturing | Mar. 17, 1813 |
| Reeve, Mark and Rd. | Philadelphia, Pa. | Nails, machine for cutting and heading | April 16, 1813 |
| Robinson, Elisha | Augusta, Mass. | Loom | July 24, 1813 |
| Reeve, Mark, and Rd. | Philadelphia, Pa. | Nail machine, improvement on Reeve's, patented February 3, 1812, October 31, 1812, and April 16, 1813 | Sept. 28, 1813 |
| Rogers, Samuel | Bridgewater, Mass. | Nail heading machine | Jan. 26, 1814 |
| Russel, Emery | Long Meadows, Mass. | Spinning and quilling wheels with heads | April 18, 1814 |
| Do | Do | Wheel heads | April 18, 1814 |
| Ridgway, James | Groton, Mass. | Spoons, making | Sept. 22, 1814 |
| Rogers, Samuel | Bridgewater, Mass. | Nail cutting and heading | Oct. 21, 1814 |
| Reed, Jesse | Hanover, Mass. | Nail cutting and heading machine | Oct. 22, 1814 |
| Rogers, Benj. | Beaver Creek, O. | Looms, temples for | Nov. 24, 1814 |
| Reed, Jesse | Hanover, Mass. | Nail machine | Dec. 16, 1814 |
| Randolph, David M. | Richmond, Va. | Candles, making mould | Aug. 1, 1815 |
| Russell, John | Brooke, Va. | Saw, setting and using the teeth of | Oct. 14, 1815 |
| Robinson, Elihu | Augusta, Mass. | Spool frame | Mar. 6, 1816 |
| Russell, Fred. A. | Georgetown, D. C. | Nails, manufacturing | Mar. 14, 1816 |
| Reich, John, and Ed. Starr | Philadelphia, Pa. | Paper, mark of opacity in | May 11, 1816 |
| Robeson, Joseph | Montgomery, Pa. | Pulp in paper vats, heating | May 22, 1816 |
| Reeve, Mark | Philadelphia | Nails, manufacturing | June 26, 1816 |
| Do | Do | Nail manufacturing | June 27, 1816 |
| Reed, Jesse | Hanover, Mass. | Tacks, machine for making | Aug. 1, 1816 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Richardson, Jacob - | Scipio, N. Y. - | Wool and cotton, spinning - - - - | Oct. 16, 1816 |
| Remington, Eliphalet | Frankfort, N. Y. - | Cloth shearing machine - - - - | Aug. 13, 1817 |
| Rogers, Samuel, and Thomas Blanchard - | Boston, Mass. - | Tack and brad machine - - - - | Oct. 3, 1817 |
| Ruckles, William - | Baltimore, Md. - | Hats, stiffening for water proof - - - | Nov. 28, 1817 |
| Raymond, A. & G. V. | Baltimore - - | Hats, stiffening - - - - - | Feb. 7, 1818 |
| Rogers, Samuel - | Bridgewater, Mass. - | Lathe for turning rollers, for rolling iron, copper, &c. - | June 24, 1818 |
| Do - | Do - | Mill for sheet iron, and rolling mill - - - | June 24, 1818 |
| Robinson, George W. | Attleborough, Mass. - | Locks, from being picked, securing - - - | July 17, 1818 |
| Rudder, James - | Norfolk, Va. - | Anti-friction bush, for sheaves in blocks - - | Feb. 6, 1819 |
| Rowand, Thomas - | Gloucester co., Pa. - | Iron bars, hollowing out - - - - | Dec. 24, 1819 |
| Raymond, Henry - | Baltimore, Md. - | Lathe, for stiffening hats - - - - | Nov. 20, 1820 |
| Rose, Robert - - | Washington, D. C. - | Gun trucks, cutting - - - - - | Aug. 6, 1821 |
| Richards, James - | Patterson, N. J. - | Cloth, manufacturing sail - - - - | Aug. 10, 1821 |
| Richards, Spencer - | Attleborough, Mass. - | Buttons, finishing glass - - - - | Aug. 19, 1822 |
| Read, Nathan - | Belfast, Me. - | Locks, spiral spring - - - - - | Mar. 31, 1823 |
| Rotch, William B. - | New Bedford, Mass. | Fur blower - - - - - - | Mar. 9, 1824 |
| Rogers, O. G. and M. | Whitestown, N. Y. - | Spinning, substitute for the flyer in - - - | Aug. 28, 1824 |
| Richardson, R. B. - | Philadelphia, Pa. - | Saw for cutting veneer - - - - | Oct. 6, 1824 |
| Rider, Nathaniel - | Sturbridge, Mass. - | Carding machine - - - - - | Mar. 12, 1825 |
| Reed, Jesse - - | Marshfield, Mass. - | Iron slitting - - - - - - | April 21, 1825 |
| Do - | Do - | Nails and tacks, feeding apparatus for - - - | April 21, 1825 |
| Do - | Do - | Nails, machine for cutting and heading - - | April 21, 1825 |
| Ross, William - | New Orleans - | Brand for flower barrels - - - - | Dec. 2, 1825 |
| Robinson, Geo. W. - | Providence, R. I. - | Spinning wool and cotton by hand - - - | Mar. 16, 1826 |

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|---|---|---|---|
| Robeson, A. | New Bedford, Mass. | Cloth, singeing | Sept. 8, 1826 |
| Reminton, Nathaniel | Geneva, N. Y. | Spinning machine | April 21, 1827 |
| Rowen, John H., and H. Wise | Fredericktown, Pa. | Tubes of clay, machine for making | May 10, 1827 |
| Robinson, John | Pittsburg, Pa. | Glass knobs, dressed at one operation | Oct. 6, 1827 |
| Richards, Joseph | Braintree, Mass. | Hammer for cutting and dressing granite | Feb. 20, 1828 |
| Robinson, Willard | Attleborough, Mass. | Buttons, grinding steel dies for | Mar. 3, 1829 |
| Reynolds, Samuel G. | Bristol, R. I. | Nail and rivet manufacturing | April 13, 1829 |
| Risley, Harlow | Glastonbury, Ct. | Spades and shovels and handles | May 1, 1829 |
| Raymond, Henry | New York | Cloths by machinery, making | June 27, 1829 |
| Russell, James | Do | Bell hanging | Oct. 10, 1829 |
| Ruggles, Henry | Do | Throstle frame | Nov. 24, 1829 |
| Root, Orlando | Montgomery co., N.Y. | Hat bodies, forming | Dec. 19, 1829 |
| Sampson, Joseph | Boston, Mass. | Candle manufactory | Aug. 6, 1790 |
| Spence, James | New York | Nail cutting and heading | Feb. 16, 1797 |
| Seymour, Benj. | Massachusetts | Rolling mill machinery | June 26, 1797 |
| Sampson, Joseph S. | Do | Candles, manufacturing | June 26, 1797 |
| Do | Do | Hoop iron, straightening | June 26, 1797 |
| Shotwell, John | New Jersey | Sharpening axes | Mar. 16, 1799 |
| Sanford, Isaac | Connecticut | Cloth machine, dressing | Mar. 27, 1799 |
| Shotwell, William | New Jersey | Pulleys, cogs for | June 24, 1800 |
| Standing, Benjamin | New Hampshire | Wool carding machine | June 28, 1803 |
| Stanley, Liberty | Massachusetts | Cloth, machine for shearing woollen, &c. | June 25, 1803 |
| Stowell, Abel | Do | Auger, gauge | Feb. 14, 1803 |
| Spencer, Asa | New London, Ct. | Thimble manufacturing | June 4, 1804 |
| Smith, William | New York | Linens, mode of glazing and polishing | May 9, 1805 |
| Share, Joseph | Baltimore, Md. | Bolts for ships, mode of casting | Oct. 28, 1805 |
| Swift, Beriah | Washington, N. Y. | Cloth, shearing | May 25, 1806 |
| Smith, Simon | New Haven, Ct. | Suspenders | Oct. 23, 1804 |
| Stickney, John | Baltimore, Md. | Andirons | May 4, 1805 |
| Shee, Parke | Philadelphia, Pa. | Trimmer, paper | Feb. 7, 1807 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Stansbury, Abm. O. - | New York - - | Lock, Egyptian - - - - - | Feb. 11, 1807 |
| Sester, Eb. - - | Little Falls - - | Trundle heads, mode for cutting - - - | Feb. 12, 1807 |
| Sellers, J., & A. Bartle | Alexandria - - | Rope making - - - - - - | May 5, 1807 |
| Smith, Eleazer - | Franklin, Mass. - | Straw plats for bonnets, machine for cleaning - | Mar. 30, 1808 |
| Stowell, Eb. - - | Worcester, Mass. - | Wool shearing machine - - - - | April 26, 1808 |
| Stewart, Simpson, and Eb. Hovey, and Jas. Henderson - | Pittstown, N. Y. - | Cloth, shearing - - - - - | June 21, 1808 |
| Sely, Ob. - - | - - - | Wheel, spinning - - - - - | Aug. 6, 1808 |
| Stansbury, Samuel - | New York - - | Candle dipping machine - - - - | Jan. 6, 1809 |
| Stearns, Abner - | West Cambridge, Mass. | Silk dying machine - - - - - | Mar. 22, 1809 |
| Smith, Daniel - | Philadelphia, Pa. - | Wool, carding - - - - - | June 14, 1809 |
| Shultz, William - | Baltimore, Md. - | Cable laying, and spinning ropes of any size - - | June 24, 1809 |
| Stanley, Tinig - | Southington, Ct. - | Combs, hair - - - - - - | July 6, 1809 |
| Stowell, Abel - | Worcester, Mass. - | Screw, cutting of wood - - - - | July 19, 1809 |
| Spies, John P. - | Baltimore, Md. - | Combs, plating horn with tortoise shell - - | Jan. 8, 1810 |
| Sprague, Eleazer - | Danbury, Ct. - | Fur cutting machine - - - - - | May 9, 1810 |
| Do - | Do - - | Cloth, machine for shearing - - - - | May 9, 1810 |
| Swift, Beriah - | New York - - | Do do - - - - | May 24, 1810 |
| Smith, William P., & Jacob Odell - | Durham, N. H. - | Linen, machine for smoothing - - - | July 17, 1810 |
| Stetson, Oliver, & William Sebree - | Georgetown, Ky. - | Auger, common screw - - - - | Dec. 11, 1810 |
| Sawin, John P., and Jacob Skinner - | Roxbury, Mass. - | Nail and brad cutting machine - - - | Feb. 8, 1811 |

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|---|---|---|---|
| Swaim, Israel | Haverhill, N. H. | Planking and felting hats | Mar. 7, 1811 |
| Stillman, William | Westerly, R. I. | Shears for shearing cloth | June 11, 1811 |
| Sizer, Jona. | New London, Ct. | Hat, machine for steaming and hardening | Nov. 6, 1811 |
| Shepard, Cyrus | Philadelphia | Loom, water | April 27, 1812 |
| Shaw, James | Herkimer, N. Y. | Wheel, spinning | Aug. 27, 1812 |
| Spencer, Asa | New London, Ct. | Ruling machine | Feb. 7, 1812 |
| Sizer, Jona. & Rosanna | Do | Cloth, weaving feather | Oct. 21, 1812 |
| Somner, John | Franklin, Pa. | Saw, setting | Nov. 16, 1812 |
| Stowell, Abel | Worcester, Mass. | Screws, machine for heading wood | Feb. 4, 1813 |
| Sloat, Jac. | Ramapo Cove, N. Y. | Screw cutting machine | May 4, 1813 |
| Staples, John J. | Flushing, N. Y. | Wire drawing machine | May 10, 1813 |
| Smith, George | New York | Silk weed, for cordage, preparation of | May 28, 1813 |
| Stowell, Abel | Worcester, Mass. | Screws, machine for finishing the heads of wood or iron | July 15, 1813 |
| Shotwell, William, & Arthur Kinder | New York | Cloth of hair, making | July 23, 1813 |
| Stowell, Eb. | Middlebury, Vt. | Polisher, cylindric | Aug. 20, 1813 |
| Steele, Her. | Hudson, N. Y. | Paper hangings, with satin grounds, manufacturing | Sept. 8, 1813 |
| Shotwell, William, & Arthur Kimball | New York | Hair of neat cattle, spinning | Nov. 4, 1813 |
| Do | Do | Do do carding | Nov. 4, 1813 |
| Sugden, Robert | Boston, Mass. | Loom | Dec. 2, 1813 |
| Steward, Stephen | Cheshire, N. H. | Lace, millinet, muslin, &c., weaving | Dec. 31, 1813 |
| Shallcross, Stephen | New York | Throstle for spinning wool, cotton, flax, and hemp | Jan. 21, 1814 |
| Stearns, Daniel | Brattleborough, Vt. | Card boards, smoothing | Mar. 10, 1814 |
| Smith, Eben. | Paris, N. Y | Spinning billy and jenny | Mar. 23, 1814 |
| Sanford, Isaac | Providence, R. I. | Cloth, machine for shearing | Mar. 26, 1814 |
| Do | Do | Cloth, substitute for teasels and cards, raising nap on | Mar. 26, 1814 |
| Spinkle, Jac. | Wythe c. h., Va. | Loom | April 27, 1814 |
| Swift, Beriah | Washington, N. Y. | Cloth, shearing | July 1, 1814 |
| Siddall, Thomas | Bristol, Pa. | Loom | July 9, 1814 |
| Sherwood, Aug. C. | - | Winding spools and bobbins for weaving | Oct. 18, 1814 |

## LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Smith, Brown, & Stewart, Charles | Truxton, N. Y. | Wheel head, improved linen | Dec. 8, 1814 |
| Squire, William | New York | Loom, warm suspender | Jan. 17, 1815 |
| Stowell, Eb. | Middlebury, Vt. | Weaving, spooling, and winding | Feb. 28, 1815 |
| Siddall, Thomas | Germantown, Pa. | Warping machine | Mar. 27, 1815 |
| Stillman, William | Westerly, R. I. | Cloth, shears for | April 28, 1815 |
| Stanger, Jac., and D. H. Miller | Philadelphia, Pa. | Furnaces, glass | Aug. 18, 1815 |
| Sedham, Henry | Troy, N. Y. | Nail heading machine | Sept. 6, 1815 |
| Smith, Daniel A. | Townsend, Mass. | Temple, weavers', perpetual | Feb. 23, 1816 |
| Speray, Eli | New Haven, Ct. | Combs, manufacturing | Mar. 28, 1816 |
| Stanford, Elias B. | Newtown, Ct. | Wheel, spinning | April 11, 1816 |
| Smith, John D. | Fredericktown, Md. | Cloth, shearing | May 24, 1816 |
| Shepard, Cyres, and J. Thorp | Taunton, Mass. | Loom, upright power | July 25, 1816 |
| Sprinkle, Jacob | Wythe, Va. | Cotton and wool, machine for spinning | Aug. 23, 1816 |
| Shilliday, Caleb, and Geo. McCaston | Shelbyville, Ky. | Spinning and reeling machine | Oct. 24, 1816 |
| Starr, Eli, and Nathan Couch | Sullivan town'p, N.Y. | Cloth, raising nap on woollen | Mar. 20, 1817 |
| Strowhuver, G., and Fred. Sauxay | Cincinnati, O. | Hand ruling machine | Sept. 1, 1817 |
| Sargent, Charles L. | Suffolk, Mass. | Cordage | Oct. 4, 1817 |
| Stewart, Adam | Baltimore | Saw belt or band | July 5, 1817 |
| Do | Do | Saw, horizontal, vertical, or radial | July 5, 1817 |

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|---|---|---|---|
| Stillman, William | Westerly, R. I. | Cloth shearing machine | Jan. 17, 1818 |
| Sullivan, John L. | Boston, Mass. | Wheel regulator and span gear | Feb. 28, 1818 |
| Stearns, Abm., and W. Barrett | West Cambridge, Mass. | Silk, finishing and dying | Jan. 30, 1818 |
| Do | Boston, Mass. | Do do | Sept. 8, 1818 |
| Sullivan, John L. | Do | Wheel regulator and span gear | Feb. 28, 1818 |
| Swain, William W. | New Bedford, Mass. | Moulding sperm candles | Jan. 14, 1820 |
| Stedman, Simeon | Hartford, Ct. | Ladles, bent wood handle and socket, for white metal | July 25, 1818 |
| Smith, Abel | Zanesville, O. | Nails, manufacturing | Mar. 22, 1820 |
| Simmons, Benjamin | Paris, N. Y. | Spinning wheel, linen | July 20, 1820 |
| Sellers, Nathan | Philadelphia | Sifters, wire rolling | Aug. 16, 1820 |
| Shepard, Silas, and C. Dean | Taunton, Mass. | Cotton roping machine | Mar. 23, 1821 |
| Stewart, Jared S. | Springfield, N. Y. | Spinning wheel head, linen | April 19, 1821 |
| Sharp, John | Whitestown, N. Y. | Yarn, spinning woollen | Mar. 13, 1822 |
| Sarchet, John | Philadelphia, Pa. | Holes, machine for punching | April 2, 1822 |
| Skinner, Elijah | Sandwich, N. H. | Fender for fireplaces | April 19, 1822 |
| Spafford, Horatio G. | Albany, N. Y. | Steel, making cast or wrought | Oct. 30, 1822 |
| Do | Do | Iron or steel, making | Oct. 30, 1822 |
| Do | Troy, N. Y. | Tools, making edge | Dec. 19, 1822 |
| Sharrock, John T. | Winchester, Va. | Cotton, manufacturing | June 20, 1823 |
| Swift, Beriah | Washington, N. Y. | Cloth, shearing | Feb. 7, 1824 |
| Schafler, Charles F. | Lewisburg, Pa. | Spinning wheel for wool | Feb. 28, 1824 |
| Stevens, Martin | New Haven, Ct. | Forks, four tined dung | April 16, 1824 |
| Smith, Thomas B. | Troy, N. Y. | Bedsteads, right and left screws for | Oct. 11, 1824 |
| Slater, Sam'l | Middletown, Ct. | Spinner, vertical | April 4, 1825 |
| Sutton, Noah | New York | Iron, splaying or flaring | April 28, 1825 |
| Seely, Holly | Unadilla, N. Y. | Rivet and bolt cutter, lever purchase | May 12, 1825 |
| Scholfield, Joseph | Stonington, Ct. | Loom | Sept. 9, 1825 |
| Stewart, Adam | Boston, Mass. | Saw, compound rotary | Sept. 29, 1825 |
| Stilliman, Orsemas M. | Brookfield, N. Y. | Temples for weaving | Jan. 30, 1826 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Sclater, Adam | Oxford township, Pa. | Brooms, hickory | Feb. 15, 1826 |
| Schirer, John | Charleston, S. C. | Gun stocks, crooking | April 12, 1826 |
| Schreiner, J. H. | Philadelphia, Pa. | Auger | Aug. 17, 1826 |
| Schreiner, Jos. H. | Philadelphia | Saw, setting | Aug. 19, 1826 |
| Sleeper, William | Philadelphia | Umbrella and parasol, manufacturing | Nov. 22, 1826 |
| Smith, Daniel M. | Warwick, Mass. | Plane, revolving timber | Dec. 28, 1826 |
| Smythe, Edmund | New York | Andirons, pedestal | Feb. 1, 1827 |
| Smiley, Ed. | Do | Repairing and finishing andirons | Feb. 22, 1827 |
| Sweet, J. W., and W. Stedman | Berkshire, Mass. | Turning tenons for rake teeth | Mar. 5, 1827 |
| Seely, Joseph C. | Dutchess co., N. Y. | Hatters cards or jacks, making | Mar. 15, 1827 |
| Sholtz, J. G. | Pickaway town'p, O. | Spindles, preventing friction on | July 6, 1827 |
| Smith, Judson | Derby, Ct. | Auger, screw | July 13, 1827 |
| Sturdevant, John, and E. Starr | Boston, Mass. | Type caster, mechanical | Oct. 23, 1827 |
| Shepardson, Wm., & Josiah C. Sperry | Hamilton, N. Y. / Camden | Turning rake and hoe handles | Dec. 3, 1827 |
| Sperry, Anson | Rotterdam, N. Y. | Rake and hoe handles, machine for turning | Dec. 26, 1827 |
| Sparrow, Jonathan | Portland, Me. | Plane, turner, sliding | Dec. 26, 1827 |
| Seymour, Francis | Plymouth, Mass. | Sheaves, cast iron, for shipping | Dec. 29, 1827 |
| Shannon, Henry A. | Columbia co., N. Y. | Wool carding machine | April 5, 1828 |
| Sitton, John, and Jas. A. Black | Pendleton / Columbia, S. C. | Lathe, wheelwright's felloe | May 5, 1828 |
| Sperry, Nathaniel | Nashville, Tenn. | Saw frame, armed | June 18, 1828 |
| Sanford, Isaac | Blockley, Pa. | Hatter's carding machine | Oct. 10, 1828 |

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|---|---|---|---|
| Sprague, Andrew, and Nich. A. Sprague | Fredonia, N. Y. | Paper, manufacturing | Oct. 31, 1828 |
| Stephens, Abiel | Andover, Mass. | Wire cutting machine | Nov. 11, 1828 |
| Strong, Charles A. | South Glastonbury, Ct. | Hammers for nails | Mar. 3, 1829 |
| Sewell, J., and C. | Bath, Me. | Pattern for moulding spikes, bolts, &c. | Mar. 25, 1829 |
| Saxton, Joseph | Philadelphia | Pencil cases, ever pointed | April 11, 1829 |
| Sanderson, Isaac | Milton, Mass. | Paper machine, cylindrical | April 18, 1829 |
| Stone, Amasa | Providence, R. I. | Loom, power | April 30, 1829 |
| Shankland, Jas. W. | Summerfield, O. | Carding machine, wool | May 5, 1829 |
| Swift, Beriah | Washington, N. Y. | Scythe, rifle for sharpening | June 11, 1829 |
| Skinner, Elijah | Sandwich, N. H. | Commode knob, glass | June 11, 1829 |
| Shetter, George | York, Pa. | Auger, serpentine screw | Sept. 10, 1829 |
| Sperry, Eli | New Haven, Ct. | Combs, making | Oct. 10, 1829 |
| Sizer, Jona. 2d | New London, Ct. | Harpoon | Oct. 16, 1829 |
| Slayton, Harvey | Lockport, N. Y. | Cloth, washing, fulling, thrashing, making carpeting | Nov. 25, 1829 |
| Tryon, Isaac | Connecticut | Combs, pointing and cutting | Feb. 22, 1798 |
| Tibballs, Samuel, jr. | Tyringham, Mass. | Hats, manufacturing | Dec. 26, 1810 |
| Toppan, E. C. | Essex co., Mass. | Sheaves for blocks | Feb. 12, 1810 |
| Turner, Robert | Boston, Mass. | Nail machine, compound lever and parallel shaft | Nov. 25, 1811 |
| Thorp, John | Providence, R. I. | Loom, hand and water | Mar. 28, 1812 |
| Treadwell, Stephen | Reading, Ct. | Shearing machine | April 27, 1812 |
| Turner, Robert | Boston, Mass. | Nail, cylindrical machine for brad and sprig | Feb. 21, 1814 |
| Tiffany, William, and Phineas Allen | Otsego, N. Y. | Carding, drawing, and roping cotton | July 17, 1815 |
| Taylor, John | Waltham, Mass. | Cloth, napping, teaseling, shearing, or bushing | Oct. 28, 1815 |
| Thorp, John, and Silas Shepard | Taunton, Mass. | Winder, socket bottom | Oct. 14, 1816 |
| Tyler, Benja. and John | Claremont, N. H. | Scythe factory machine | Feb. 1, 1817 |
| Thomas, Thomas G. | Philadelphia | Comb cutting machine | June 14, 1817 |
| Tierman, Anthony | New York | Dog power | April 27, 1818 |
| Thomas, Robert | Richmond co., N. C. | Auger tube | May 29, 1819 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Tilge, Johan. H. | Washington, D.C. | Hats, stiffening water proof | Sept. 23, 1819 |
| Tomlinson, Daniel | Brookfield, Ct. | Knife, currying | July 6, 1820 |
| Thorp, John | Providence, R. I. | Braiding machine | Aug. 10, 1821 |
| Thompson, George | Philadelphia, Pa. | Nails | Sept. 5, 1821 |
| Thayer, Joel F. | Boston, Mass. | Locks and latches for doors | May 18, 1822 |
| Taylor, Joel | Danbury, Ct. | Hats, coloring | Nov. 20, 1823 |
| Tuttle, Dinah H. | Williamson, N. Y. | Wheel head, accelerating | May 17, 1824 |
| Taylor, Israel | Trenton, N. J. | Hats, dyeing | Aug. 27, 1824 |
| Totten, Lafferd | Schoharie, N. Y. | Spinner, domestic wool | Nov. 13, 1824 |
| Trott, Adolphus G. | New York | Nankeen, dying | Feb. 11, 1825 |
| Tyler, R., & B. P. Coston | Philadelphia, Pa. | Hats, pressing straw and Leghorn | May 23, 1826 |
| Thompson, Elijah | Lowell, Mass. | Carding machine | June 8, 1826 |
| Thorp, John | Providence, R. I. | Braiding machine | July 10, 1826 |
| Tyler, H. | Utica, N. Y. | Bells | Oct. 20, 1826 |
| Totten, Lafferd | Schoharie, N. Y. | Spinner, domestic | Nov. 22, 1826 |
| Tillon, John | Newtown, Ct. | Carding machine | Sept. 8, 1827 |
| Treadwell, Stephen | Weston, Ct. | Screws, machine for cutting wooden | May 22, 1828 |
| Thatcher, Geo. L. | Brooklyn, N. Y. | Hat bodies by machinery, manufacturing | May 31, 1828 |
| Thorpe, John | Providence, R. I. | Knot, shuttle for tying knots | Nov. 20, 1828 |
| Do | Do | Cotton, spinning and twisting | Nov. 20, 1828 |
| Do | Do | Yarn, spinning or filling, and slack twisted | Nov. 25, 1828 |
| Do | Do | Spinner, ring groove | Dec. 31, 1828 |
| Do | Do | Spinner cap | Jan. 23, 1829 |
| Taber, Wm. B. | Canton, Mass. | Bobbin and flyer, Canton woollen | Jan. 30, 1829 |
| Thorpe, John | Providence, R. I. | Roll yarn on the shuttle bobbin, forming | Mar. 20, 1829 |

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|---|---|---|---|
| Do | Do | Spinner, improvement on Thorpe, (patented 25th Nov. 1828) | April 3, 1829 |
| Do | Do | Spinner, running cap | June 13, 1829 |
| Tucker, J., and J. Judge | Washington, D. C. | Anchors, faggoting | Nov. 19, 1829 |
| Thorpe, John | Providence, R. I. | Weaving narrow stuffs without a shuttle | Dec. 22, 1829 |
| Veltenair, Christian | Virginia | Razor grinding, metallic | Aug. 10, 1804 |
| Vedder, Volkert | Amsterdam, N. Y. | Cloths, plates for pressing woollen | Feb. 4, 1811 |
| Vanderpool, James, and John Eagles | Newark, N. J. | Tobacco spinning, and turning of wheel | April 8, 1812 |
| Viales, Lewis | New Orleans | Cotton, machine for inspecting | Oct. 29, 1818 |
| Van Vechten, D. K. | New York | Banding, raised, and ornamental binding | Dec. 12, 1820 |
| Vail, Daniel | Philadelphia | Furs, wool, &c., cleaning | Feb. 21, 1821 |
| Van Riper, Thomas | Patterson, N. J. | Throstle, bobbin or spool | Aug. 16, 1826 |
| Valentine, Ab. S. | Bellefonte, Pa. | Rolling iron | Jan. 3, 1827 |
| Van Horn, Ab. L. | Philadelphia | Suspenders, manufacturing | Feb. 22, 1827 |
| Van Hoesen, Levi | Norwalk, Ct. | Hat bodies, by machinery | June 19, 1829 |
| Do | Do | Felt of wool, without spinning or weaving | June 27, 1829 |
| Whittemore, Amos | Massachusetts | Loom | Nov. 17, 1796 |
| Do | Do | Nail cutting | Nov. 19, 1796 |
| Do | Do | Cards for wool | June 5, 1797 |
| Wilkinson, David | Rhode Island | Screw cutting machine | Dec. 14, 1798 |
| Wigglesworth, Michael | Massachusetts | Rope making | June 26, 1799 |
| Whiting, Eben. | Do | Block making machine | April 1, 1802 |
| West, Edward | Kentucky | Nail cutting machine | July 6, 1802 |
| Do | Do | Nails, heading and cutting | July 6, 1802 |
| Whiting, Calvin, and Eli Parsons | Massachusetts | Tin, sheet, mode of opening | April 14, 1804 |
| Wing, William | Hartford, Ct. | Type casting machine | Aug. 28, 1805 |
| Webb, Orange | New York | Suspenders | Sept. 18, 1804 |
| Willard, Simon | Hudson, N. Y. | Nails, cutting and heading | Nov. 30, 1807 |
| Whipple, Sylvester G. | Hallowell, Me. | Hats, caps, &c., application of bark for | April 17, 1807 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Webb, Orange | New York | Suspender straps | Oct. 14, 1807 |
| Wilmot, Samuel, jun. | New Haven, Ct. | Nail manufacturing | April 21, 1809 |
| Walworth, Joseph | New York | Nails, iron, brass, and composition, casting | Nov. 22, 1809 |
| White, Josiah | Philadelphia, Pa. | Iron, moulding and rolling | Mar. 14, 1810 |
| Williams, David, 3d | Saybrook, Ct. | Combs, ivory, manufacturing | Mar. 28, 1810 |
| Webster, Alpheus | Green co., N. Y. | Flax, &c., spinning | Mar. 31, 1810 |
| Wilmarth, Ezra | Romney, Mass. | Cloth, shearing | Feb. 28, 1811 |
| Witherle, Joshua | Boston, Mass. | Fur from peltry, cutting | May 28, 1811 |
| Wolcott, Benjamin | Danbury, Ohio | Suspenders, double spring | May 29, 1811 |
| Walton, Azariah | Keene, N. H. | Flyers for spinning cotton yarn | Jan. 6, 1812 |
| White, Josiah | Columbia, Pa. | Nail cutting and heading machine | Jan. 11, 1812 |
| White, Josiah | Philadelphia, Pa. | Rolling machine, for reducing metal to bars or rods, for making wire round or square | May 15, 1812 |
| White, Samuel G. | Haverhill, Mass. | Files, rasps, &c., machine for cutting | July 11, 1812 |
| Wadsworth, William | Hartford, Ct. | Wire drawing machine | Oct. 6, 1812 |
| Walden, J. T. & Thos. | New York | Wire drawing machine | Oct. 31, 1812 |
| Webster, Alpheus | Green co., N. Y. | Spinner, linen | Dec. 21, 1812 |
| Williamson, Peregrine | Baltimore, Md. | Shot and bullet machine | May 12, 1813 |
| Ware, Alfred, jun. | Franklin, Mass. | Loom | June 18, 1813 |
| Williams, Thomas R. | Newport, R. I. | Loom | July 3, 1813 |
| Williams, Goliah | North Providence, R. I. | Beam, weavers' | Aug. 24, 1813 |
| Werely, John | Albany, N. Y. | Hats, forming wool and rorums into bats for | Oct. 14, 1813 |
| Whitney, Calvin | Dedham, Mass. | Loom, warping | Feb. 1, 1813 |
| Wright, Harvey, and Orlestus Roberts | Bristol, Ct. | Wheel, spinning | Mar. 26, 1813 |

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|---|---|---|---|
| Wright, William | Brooklyn, N. Y. | Loom | Oct. 12, 1814 |
| Witherle, Joshua | Boston, Mass. | Screws, by circular cutter, cutting | Feb. 9, 1815 |
| Do | Do | Screws, machine for slitting and finishing the heads of | March 7, 1815 |
| Waring, William, and Charles Phillips | Jefferson, N. Y. | Nails, manufacturing | Oct. 21, 1815 |
| Webster, George | New York | Types, casting moveable | Feb. 28, 1816 |
| Woodruff, Samuel H., and Anson Matthews | Connecticut | Buttons, composition for wire-eyed | March 1, 1816 |
| Weston, Nathan | Reading, Mass. | Hats, manufacturing cemented | May 24, 1816 |
| Worrall, Henry | New York | Pulley blocks, moulding and casting sheaves of | June 12, 1816 |
| Weaver, Wm. J. | Do | Chair, eagle | June 14, 1816 |
| Wilkinson, Jepthah A. | Otsego, N. Y. | Reeds for weavers | July 3, 1816 |
| Walworth, Thomas P. | Patterson, N. J. | Sheaves, apparatus for moulding bushes or cogs for | July 15, 1816 |
| Wheeler, Zaccheus | Richmond, N. H. | Spinning machine | July 18, 1816 |
| Wall, John | - - - | Chair bottoms, table tops, &c. | Oct. 29, 1816 |
| Wells, Lewis J. B. | Philadelphia, Pa. | Colors, imprinting | Jan. 24, 1817 |
| Wright, James | Campbell co., Ky. | Wheel, spinning | Feb. 28, 1817 |
| Webb, Orange | New York | Suspenders, buckles for | July 5, 1817 |
| Watson, Joseph | New Canaan, Ct. | Fetters for horses | Jan. 15, 1818 |
| Waterman, John | Providence, R. I. | Temples, sliding | May 28, 1818 |
| Warren, Edmund | New York | Loom | Aug. 27, 1818 |
| Waters, Asa | Milbury, Mass. | Barrels, turning gun | Dec. 19, 1818 |
| Wilson, Henry | Mendon, N. Y. | Wheel, spinning | Dec. 29, 1818 |
| Weed, S. H. | Poughkeepsie, N. Y. | Brooms, machine for making | Feb. 3, 1819 |
| Whitehead, John | North Providence, R. I. | Lathe of the power loom | Aug. 30, 1819 |
| Woolworth, Azariah | Waterbury, Ct. | Gun stocks, turning | June 15, 1820 |
| Wright, Duncan | Medley, Mass. | Cloth by steam rollers, dying | Aug. 31, 1820 |
| Woodard, Joshua | Portage, Ohio | Carding machine | May 2, 1821 |
| Wellord, R., & J. H. Dees | Philadelphia | Planes, carpenters' | May 14, 1821 |
| Whittingham, Richard | New York | Tongs, fire irons, &c. | June 8, 1821 |
| Winans, Ross | Warwick, N. Y. | Cloth by steam, fulling | June 26, 1821 |

LIST OF PATENTEES—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Whaley, Thomas - | New York - - | Locks and bolts, sliding door - - - - | Nov. 2, 1821 |
| Winning, William - | Do - - | Reticules - - - - - - | Nov. 7, 1821 |
| Walcott, Erastus - | Newport, N. Y. - | Yarn, cotton, making without the aid of twist - - | Dec. 11, 1821 |
| Warren, Edmund - | New York - - | Loom - - - - - - - | Dec. 11, 1821 |
| Wood, James C. - | Philadelphia, Pa. - | Cloth, &c., ornamenting - - - - | Dec. 14, 1821 |
| Wells, Gurden, & Sophia Wells - | Weathersfield, Ct. - | Bonnets and hats, grass - - - - | Dec. 29, 1821 |
| Woods, Andrew - | Charlestown, Va. - | Chairs, nursing - - - - - | Mar. 13, 1822 |
| Williams, Everett - | Stratford, N. H. - | Rollers, covering for sizing - - - - | April 13, 1822 |
| Warren, Edmund - | New York - - | Loom - - - - - - - | May 1, 1822 |
| Wall, Richard - | Waterbury, Ct. - | Pipes, making leaden - - - - - | July 5, 1822 |
| Weston, Henry - | Philadelphia, Pa. - | Pin machine - - - - - - | July 23, 1823 |
| Wilcox, Richard - | New York - - | Paper ruling machine - - - - - | Sept. 4, 1823 |
| White, Cotton, and A. Hill - - | Hadley, Mass. - | Lathe, turning - - - - - | Mar. 30, 1824 |
| Wildman, Nirum - | Danbury, Ct. - | Hats, machine for steaming and hardening - - | April 2, 1824 |
| Wilcox, Richard - | New York - - | Locks - - - - - - - | April 20, 1824 |
| Whiting, C., S. Lowder, and C. Whiting | Dedham, Mass. - | Cotton rolls, machine for forming - - - | June 25, 1824 |
| Whiting, C., J. Goulding, and Wm. James | Do - | Loom - - - - - - - | June 25, 1824 |
| Wadsworth, John A. - | Portsmouth, R. I. - | Scythe, horse - - - - - - | July 3, 1824 |
| Wood, Elias - | Lowville, N. Y. - | Spinning machine, domestic - - - - | Sept. 3, 1824 |
| Whiting, Sidney - | Franklin, Mass. - | Roping cotton, slack thread, &c. - - - | Nov. 17, 1824 |
| White, Sidney - | Wrentham, Mass. - | Spinning - - - - - - | Dec. 31, 1824 |

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|---|---|---|---|
| Wood, James | Philadelphia, Pa. | Shovels and spades | Feb. 10, 1825 |
| Weed, L. H. | New York | Brushes, brooms, &c., of grasses | Feb. 28, 1825 |
| Wright, Lemuel W. | Manchester, Eng. | Pin making | Mar. 12, 1825 |
| Wilcox, Roswell | Columbus, O. | Loom | Mar. 21, 1825 |
| Whitehead, Wm. | Patterson, N. J. | Cotton roving and wool machine | April 11, 1825 |
| Wilkinson, Job | New York | Napping cloth | May 12, 1825 |
| Woolsey, Richard | Kortwright, N. Y. | Spinner, family and factory | May 13, 1825 |
| Wheeler, J. R. & J. B. | Kingsbury, N. Y. | Spinner, improvement on Browne's vertical | May 26, 1825 |
| Woodhouse, Joseph | Otsego, N. Y. | Paper, books, &c., cutting | May 30, 1825 |
| Wiltse, A. L., & Joel Farnham | Tioga, N. Y. | Spinning wool and cotton | June 28, 1825 |
| Williamson, Per. | Baltimore | Plane irons | Sept. 9, 1825 |
| Whitehouse, Turner | Boston, Mass. | Lock, mortice and door | Sept. 29, 1825 |
| Wheeler, J. R. & J. B. | Galway, N. Y. | Spinner, fancy | Mar. 3, 1826 |
| Wilcox, Roswell | Franklin co., O. | Loom | April 21, 1826 |
| Waterhouse, Ez. | Gardiner, Me. | Picking oakum by machinery | April 24, 1826 |
| Watt, J., F. A. Priest, and G. Freeman | Jefferson co., O. | Spinning machine, family | May 20, 1826 |
| Whitehead, jr., Wm. | Patterson, N. J. | Roving or twisting roving of cotton | June 14, 1826 |
| Wilde, Benj. | Utica, N. Y. | Suspenders | Aug. 19, 1826 |
| Wheeler, J. R. & J. B. | Galway, N. Y. | Wool, roping and spinning | Aug. 28, 1826 |
| Whitney, H., and E. Robinson | Cambridge, Mass. | Glass knobs for doors, &c. | Nov. 4, 1826 |
| Woodhull, Joseph | Chester, N. Y. | Spinning and reeling wool and cotton | Nov. 14, 1826 |
| West, Charles E. | Colchester, Ct. | Irons for planes or jointers | Jan. 10, 1827 |
| White, Ira, & L. Gale | Newburgh, Vt. | Paper, finishing | Feb. 28, 1827 |
| Wilson, Henry | Pomfield, N. Y. | Spinner, Browne's vertical | July 13, 1827 |
| Watson, Cornelius | Addison Town'p, O. | Wheel, tread | Dec. 22, 1827 |
| Walker, Thomas | Chester co., Pa. | Mule for spinning cotton | June 26, 1828 |
| Williams, Samuel S. | Roxbury, Mass. | Mats from Manilla and other grass, manufacturing | Aug. 22, 1828 |

## LIST OF PATENTS—FACTORY MACHINERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Waterman, R., & Geo. W. Annis | Providence, R. I. | Paper on machines, manufacturing | Aug. 30, 1828 |
| Wheeler, John W. | Galway, N. Y. | Cotton and wool, spinning and roping | Oct. 11, 1828 |
| West, H. F., and A. K. Stevens | Richland, N. Y. | Hat bodies | Oct. 29, 1828 |
| Wright, Lemuel W. | London, Eng. | Screws, arranging machinery for making | Dec. 6, 1828 |
| Woodhull, Joseph | Rochester, N. Y. | Screw, zigzag | Dec. 31, 1828 |
| Wooster, David | China, N. Y. | Brushes, manufacturing | Feb. 16, 1829 |
| Wilson, John D. | New York | Hats, stiffening | Aug. 6, 1829 |
| Wood, Reuben | Erin, N. Y. | Dying by steam | Aug. 25, 1829 |
| Wheeler, Joseph B. | Galway, N. Y. | Spinner, golden | Dec. 30, 1829 |
| Whitehouse, Turner | Boston, Mass. | Mortice and door locks | Sept. 29, 1829 |
| Young, Fred. | New York | Nails, heading and cutting | Aug. 23, 1800 |
| Young, Nicholas | Pennsylvania | Fur machine, hatters' | May 14, 1802 |
| Do | Do | Hair, pulling, from skins | June 28, 1803 |
| Yard, James M. | Trenton, N. J. | Candles, machine for manufacturing | Dec. 4, 1821 |
| Zacharie, Peter, | Maryland | Nail and brad cutting | May 4, 1796 |
| Zaisler, James | Baltimore | Candles of tallow and wax, making | April 2, 1796 |
| Zwisler, James | New York | Candles, mould and dip | July 1, 1814 |

## LIST OF PATENTS—NAVIGATION.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Architecture, naval | John Thomas | Washington, D. C. | April 14, 1825 |
| Ark, safety | William Hollins | Baltimore, Md. | May 4, 1824 |
| Bilge lever for supporting ships | John Thomas | New York | Nov. 6, 1826 |
| Do ways | Do | Do | Oct. 10, 1829 |
| Binnacle lights | Winslow Lewis | Boston, Mass. | June 24, 1808 |
| Do do | Joseph F. Smith | Baltimore, Md. | June 1, 1825 |
| Blocks and wedges for raising vessels | John Thomas | Washington, D. C. | May 17, 1822 |
| Do snatch | James Evans | Charlestown, Mass. | Dec. 6, 1828 |
| Blubber, mincing whale's | Benjamin Taber | Fair Haven, Mass. | Aug. 11, 1821 |
| Do knife | William Ball | New York | April 25, 1822 |
| Boat for descending rapid streams | Daniel Keller | Pennsylvania | Nov. 5, 1799 |
| Do for ascending rivers | David Grieve | Massachusetts | Feb. 24, 1801 |
| Do insubmersible | Ab. Dulric Marentinne | - - - | Dec. 23, 1802 |
| Do building | William Hopkins | Connecticut | May 13, 1803 |
| Do anti-steam | William Wadsworth | Hartford, Ct. | July 17, 1806 |
| Do flat bottomed, with moveable keel | Samuel Buel | Burlington, Ct. | July 7, 1810 |
| Do and vessels, constructing | Francis Rotch | New Bedford, Mass. | Nov. 29, 1811 |
| Do do do | Do | Philadelphia, Pa. | Aug. 3, 1812 |
| Do for rapids | Frederick W. Geissenheimer | New York | Jan. 14, 1814 |
| Do rocking or lever | Bennet Lies | Do | June 20, 1815 |
| Do worked by quadrupeds | David Porter | Washington, D. C. | Feb. 8, 1816 |
| Do and sea vessels, building | William Annesley | New York | Sept. 12, 1816 |
| Do for passing up rapids | Lemuel Thwing | Dedham, Mass. | Aug. 12, 1820 |
| Do iron | Thomas I. Bond | Baltimore, Md. | Dec. 21, 1820 |

LIST OF PATENTS—NAVIGATION—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Boat for rivers | N. C. Dawson and A. Rucker | Pedlar's Mills, Va. | April 3, 1821 |
| Do transporting on canals from one level to another | Robert P. Bell | New York | July 13, 1827 |
| Do passing up and down elevations on canals | Robert Graves | Brooklyn, N. Y. | July 26, 1827 |
| Do constructing | Thomas Thorpe | Washington, D. C. | Aug. 31, 1827 |
| Do for canals | Benjamin Phillips | Philadelphia, Pa. | April 21, 1828 |
| Do do | Benijah Williams | Mendon, N. Y. | Mar. 3, 1829 |
| Do canal passage | Jacob Bromwell | Cincinnati, O. | June 23, 1829 |
| Do for canals | Thomas W. Bakewell | Do | Aug. 25, 1829 |
| Building vessels, &c. | Do | Do | Feb. 21, 1827 |
| Bulk head, water tight, for steam boats | Ruggles Whiting | Louisville, Ky. | June 6, 1825 |
| Buoy, life | William Flower | Philadelphia, Pa. | May 14, 1808 |
| Centre board to increase the speed of vessels | Garrett Fountaine | Staten Island, N. Y. | Mar. 15, 1825 |
| Chair, marine | Ab. Du Buc Marentille | New Jersey | Mar. 18, 1803 |
| Compass, mariner's, fixing | Lemuel Langley | Gosport, Va. | June 23, 1828 |
| Composition for bottoms of vessels | John Pratt | Middletown, Ct. | Jan. 14, 1809 |
| Do do do | William Russell, jr. | New Bedford, Mass. | Nov. 8, 1819 |
| Do do do | James Russell | Do | Jan. 29, 1820 |
| Covering heads of nails, bolts, &c. | William Mellus | Dorchester, Mass. | Aug. 3, 1822 |
| Dams, river, for the easy passage of fish up and down | Pat. Magrath | Philadelphia, Pa. | Oct. 10, 1829 |
| Diving machine | Richard Tripe | Dover, N. H. | April 1, 1806 |
| Do dress | Chauncey Hall | Connecticut | Dec. 24, 1810 |
| Do mode of | Wm. Brookfield | Detroit, Michigan | July 17, 1820 |
| Do suit | William C. Davidson and Daniel Clark | Pittsford, N. Y. | July 26, 1824 |

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|---|---|---|---|
| Dock, dry | John Gardiner | Washington, D. C. | Dec. 3, 1802 |
| Do floating | William Rhodes | New York | May 16, 1808 |
| Do do | Samuel Rose | Do | June 15, 1812 |
| Do do | John Adamson | Boston, Mass. | Dec. 13, 1816 |
| Do projecting | Moses Rogers | New York | Jan. 7, 1817 |
| Do dry, rotary | Joseph Webb | Do | May 3, 1817 |
| Do do floating | Albert Brux | Augusta, Ga. | Nov. 6, 1818 |
| Do do | Ralph Bulkley | New York | Aug. 28, 1821 |
| Do do floating | Edward Covenhoven | Greenburg, N. Y. | Oct 30, 1821 |
| Do do | Christian Bergh | New York | April 29, 1825 |
| Do do floating | Wm. R. Lowerie | Do | June 23, 1825 |
| Do elevating | Eph. Buck, H. Crehore, R. Jerry, and A. Bayrd | Boston, Mass. | July 11, 1825 |
| Do dry, fresh water | Levi H. Clarke and Lewis M. Wiss | New York | Nov. 22, 1825 |
| Do rail way | John Thomas | Do | Feb. 24, 1826 |
| Do dry | Alonson Place | Do | April 1, 1826 |
| Do buoyant | Maximin Isnard | Do | June 22, 1826 |
| Do carrying and lifting trunk | James Barron | Norfolk, Va. | Aug. 2, 1826 |
| Do dry, floating | John Floyd | Kittery, Me. | Aug. 17, 1826 |
| Do screw | John C. Ely | New York | Jan. 28, 1829 |
| Do dry | Elias Selden | Haddam, Ct. | July 30, 1829 |
| Do screw | Elisha Turner | New York, Rochester | Oct. 10, 1829 |
| Dowelling bit, used in ship building | John Thomas | Washington, D. C. | April 2, 1825 |
| Excavator, floating | Harvey W. Campbell | Lockport, N. Y. | Jan. 22, 1828 |
| Fender for steam boats | E. C. Genet | New York | Sept. 9, 1825 |
| Ferry boat | Thomas Cohoon | Pittsfield, Mass. | June 25, 1813 |
| Fids for ships' masts | Benjamin Rotch | Bristol, Eng. | Dec. 10, 1823 |
| Fish, catching | Joseph Ellicott | Pennsylvania | May 25, 1795 |
| Do mode of carrying in warm weather | Nathaniel Robbins | New Jersey | Mar. 11, 1802 |

LIST OF PATENTS—NAVIGATION—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Fish vessel and nets | James Wells, jr. | Galloway, N. J. | Dec. 17, 1814 |
| Do catching, by floating wharves | A. Bailey | Havre de Grace, Md. | June 24, 1820 |
| Do do | Daniel Gordon | Lower Chanceford, Pa. | Mar. 27, 1824 |
| Do do wear for | Hawley Emerson | Hancock, | Aug. 14, 1811 |
| Floating machine for supplying ships with fresh water | John F. Randolph | New York | April 25, 1811 |
| Do vessels | John Denny | Queen Ann co., Md. | Oct. 3, 1822 |
| Floor, elastic, for propelling boats, &c. | Oliver Phelps | Lansing, N. Y. | Nov. 17, 1821 |
| Friction, lessening, in canal boats | Peter Freeman | Morris co., N. J. | June 1, 1825 |
| Hearths, fire, for ships | John Lamb | Amboy, N. J. | Mar. 18, 1820 |
| Heaving down vessels and raising weights | Stephen Colver | Connecticut | Dec. 14, 1798 |
| Do do | John Crowninshield | Salem, Mass. | Oct. 19, 1827 |
| Hoisting machine | William Purden | Baltimore, Md. | Mar. 19, 1806 |
| Horse boat | Moses Crafts | Troy, N. Y. | Feb. 13, 1809 |
| Do do | Salmon Fuller | Clarke co., Ind. | Feb. 19, 1811 |
| Do do machinery | David Dunham | New York | June 28, 1814 |
| Do do | Moses Isaacs | Philadelphia, Pa. | Mar. 17, 1818 |
| Do do | Barnabas Langdon & John C. Langdon | Troy, N. Y. | June 5, 1819 |
| Ice breaking machine | John J. Williams | Georgetown, D. C. | Mar. 2, 1813 |
| Do cutting | Nathaniel J. Wyeth | Cambridge, Mass. | Mar. 18, 1829 |
| Impelling boats on water or land | Benjamin Taylor | New York | April 25, 1808 |
| Keels of vessels | Gilbert Livingston | Do | Oct. 22, 1803 |
| Do swinging | Josiah Beale | Alexandria, D. C. | Jan. 15, 1812 |
| Do do false | Philander Hall | | April 2, 1816 |
| Do and kelsons of leeboard vessels | James Wiltse | Fishkill, N. Y. | May 4, 1821 |

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|---|---|---|---|
| Lanyard's chain | Robert Rogers | Dover, N. H. | Feb. 6, 1823 |
| Lee board | Jacox Swain, H. Swain, & Josh. Swain | Cape May c. h., N. J. | April 10, 1811 |
| Lights, glass, for ships | Joshua Oakes | Boston, Mass. | May 11, 1822 |
| Do do for decks of ships | George Gray | Lynn, Mass. | Mar. 26, 1825 |
| Log for ships | Chester Gould | Pennsylvania | May 27, 1799 |
| 26 Mud machine | Peter Zaccharie | Baltimore, Md. | Nov. 24, 1791 |
| Do do | Stephen Colver | Connecticut | Dec. 14, 1798 |
| Do do | John Greenleaf | Massachusetts | July 13, 1802 |
| Do do | Mat. Barney | Do | May 4, 1803 |
| Do do | John Eveleth | - - - | Feb. 21, 1807 |
| Do do | William Shultz | Baltimore, Md. | June 16, 1809 |
| Do do | John Newman | Providence, R. I. | June 27, 1809 |
| Do do | James Tucker | Baltimore, Md. | Dec. 13, 1816 |
| Do do floating | Samuel Davis | Do | Jan. 22, 1817 |
| Do do | Do | Do | Mar. 28, 1818 |
| Do do | Charles T. Baker | Providence, R. I. | April 12, 1819 |
| Do do | John Eveleth | Georgetown, D. C. | Aug. 9, 1821 |
| Do do | J. Watchman and J. Bratt | Baltimore, Md. | Feb. 18, 1825 |
| Navigable mercantile house | Samuel Collins | New York | Sept. 26, 1826 |
| Navigating rivers in shoal waters | Roger Haskell | Geneva, N. Y. | July 7, 1821 |
| Do do | Michael Williams | Albany, N. Y. | Feb. 24, 1809 |
| Do and ferrying rivers | Joseph Godley | Alexandria, N. J. | Feb. 22, 1823 |
| Navigation, improvement in | Ed. Clark | Philadelphia, Pa. | June 25, 1823 |
| Do do internal | Anth'y Hunn | Danville, Ky. | Mar. 24, 1804 |
| Do do | James Renwick | New York | Nov. 7, 1823 |
| Do do machinery | John J. Giraud | Baltimore, Md. | Jan. 31, 1827 |
| Oar head | Adolph Heilbronn | New York | Mar. 16, 1829 |
| Do | Cornelius Seaman | Washington co., Md. | Aug. 15, 1817 |
| | John Orbison | Piqua, Ohio | May 27, 1820 |

## LIST OF PATENTS—NAVIGATION—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Oyster platform | John Freeland | New York | April 29, 1828 |
| Paddles for boats | Richard Claiborne | Virginia | Feb. 23, 1802 |
| Do chain, for boats | Azahel Pierson | Cumberland co., N. J. | Mar. 2, 1811 |
| Do and chain wheels for boats | Robert R. Livingston | Clermont, N. Y. | June 13, 1812 |
| Do folding boat | Eb. Jenks | Colebrook, Ct. | June 6, 1817 |
| Do for propelling ships | John L. Sullivan | Boston, Mass. | April 28, 1818 |
| Do for wheels, gearing and ungearing | B. S. Doxey | Baltimore, Md. | Feb. 9, 1821 |
| Do do of boats | William F. Kearsing | New York | Dec. 8, 1826 |
| Do water | J. J. Giraud | Baltimore, Md. | Sept. 18, 1827 |
| Do wheels | Jacob Perkins | London, England | Nov. 30, 1829 |
| Do or flutter wheels of boats | William Thornton | Washington, D. C. | Dec. 23, 1814 |
| Predrometer, sea | Bennett Lies | New York | June 20, 1815 |
| Perambulator, nautical | Amos Whittemore | Massachusetts | Nov. 19, 1796 |
| Plane, inclined, for boats on canals | John Williams | Deerfield, Mass. | Mar. 23, 1804 |
| Do do drawing up vessels | Ed. Clark | New York | June 27, 1825 |
| Do do raising and lowering canal boats | William Knight | Morristown, N. J. | Aug. 5, 1828 |
| Do do raising and lowering boats on canals from one level to another | Ephraim Morris | Bloomfield town'p, Pa. | Oct. 13, 1829 |
| Planking vessels | John Thomas | Washington, D. C. | Dec. 2, 1822 |
| Do | William Scarbrough | Darien, Ga. | May 19, 1824 |
| Ploughing, submarine | John Kendrick | Newton, Mass. | June 10, 1818 |
| Plugs, machine for cutting, for waists and decks of ships | Chris. Josselyn | New York | June 28, 1826 |
| Do do do | James Josselyn | Do | May 3, 1828 |
| Propelling boats by animal power | Henry Voight | Philadelphia, Pa. | Aug. 10, 1791 |
| Do do or vessels | James Rumsey | Berkeley co., Va. | Aug. 26, 1791 |

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|---|---|---|---|---|
| Do | do by steam | John Fitch | Philadelphia, Pa. | Aug. 26, 1791 |
| Do | vessels | Abijah Babcock | New York | Dec. 2, 1793 |
| Do | do | Benjamin Wynkoop | Philadelphia, Pa. | Sept. 13, 1794 |
| Do | boats | Daniel Keller | Pennsylvania | May 25, 1795 |
| Do | do by horse power | William P. Sprague | Do | June 19, 1795 |
| Do | do &c., by steam | Jehosaphat Starr | Connecticut | April 28, 1797 |
| Do | do | John Martin | New York | Nov. 21, 1797 |
| Do | vessels | Charles Strondinger | New Jersey | June 2, 1798 |
| Do | boats | Josiah Shackford | New York | Mar. 21, 1799 |
| Do | do | William Bell | Pennsylvania | Nov. 24, 1803 |
| Do | do | John Heavin | Montgomery co., Va. | April 17, 1806 |
| Do | do | James A. Pearce | Louisville, Ky. | April 7, 1807 |
| Do | do | Philemon Heaton, M. B. Boyes, & Philemon Heaton, jr. | | Mar. 4, 1808 |
| Do | do | William Wadsworth | Hartford, Ct. | Mar. 15, 1808 |
| Do | apparatus for boats | Samuel Stilwell and Daniel T. Wandell | New York | June 3, 1808 |
| Do | boats, &c. | A. G. D. Tuthill | Do | Mar. 22, 1810 |
| Do | and rowing boats | William Shaw | Otsego, N. Y. | Feb. 19, 1812 |
| Do | hydraulic boat against currents | William Shultz | Philadelphia, Pa. | May 28, 1812 |
| Do | boats, working mills, &c. | William Shaw | Otsego, N. Y. | June 5, 1812 |
| Do | do or vessels | Alexander Anderson | Philadelphia, Pa. | Aug. 21, 1812 |
| Do | do by levers and weights | John T. Schenck | New York | Oct. 23, 1812 |
| Do | ball proof vessels by steam applied under water | Thomas Gregg | Connellsville, Pa. | Mar. 19, 1813 |
| Do | boats by animal power | Moses Rogers | New York | Feb. 9, 1814 |
| Do | do steam | Nich. J. Roosevelt | New Jersey | Dec. 1, 1814 |
| Do | do animal power | Moses Rogers | New York | Mar. 3, 1815 |
| Do | do | Gabriel Manny | Montgomery, N. Y. | June 8, 1815 |
| Do | do steam | William Tatham | Washington City, D.C. | April 8, 1816 |
| Do | vessels in a calm | Stephen Rudd | New York | June 14, 1816 |

## LIST OF PATENTS—NAVIGATION—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Propelling boats by weights - - - - | Moses Martin - | Woodbridge, N. J. - | July 8, 1816 |
| Do do horses, mules, &c. - - - | Rodman Bowne - | New York - - | July 18, 1816 |
| Do do carriages, &c. - - - - | Barnabas Langdon - | Whitehall, N. Y. - | Feb. 22, 1817 |
| Do machine called the submarine propeller - | John L. Sullivan - | Boston, Mass. - | Mar. 24, 1817 |
| Do boats by the application of condensed air - | Do - - | Do - - | Mar. 24, 1817 |
| Do vessels by pendulum power - - - | Jos. Cerneau - | New York - - | Aug. 28, 1817 |
| Do do animal power - - - | J. P. Durand - | Do - - | Oct. 3, 1817 |
| Do boats - - - - - | Do - - | Do - - | Jan. 17, 1818 |
| Do do - - - - - | Jos. Cerneau - | Do - - | Mar. 6, 1818 |
| Do do by pumps - - - | Mayer Ulman & Moses Isaacs - | Philadelphia, Pa. - | Mar. 17, 1818 |
| Do do - - - - - | John J. Giraud - | Baltimore, Md. - | April 10, 1818 |
| Do do - - - - - | Rennee St. Deprest - | New York - - | May 9, 1818 |
| Do do - - - - - | Thomas Kearsing - | Do - - | June 6, 1818 |
| Do do - - - - - | Henry Farnham - | Albany, N. Y. - | Sept. 5, 1818 |
| Do do - - - - - | Abm. Taylor - | New York - - | Nov. 18, 1818 |
| Do do - - - - - | Jer. Gray - - | Peekskill, N. Y. - | Nov. 18, 1818 |
| Do do - - - - - | Abm. Bartholomew - | Albany, N. Y. - | Dec. 1, 1818 |
| Do do by screw power - - - | Henry W. Wheatley | New York - - | Dec. 30, 1818 |
| Do do and vessels - - - - | William J. Lewis - | Virginia - - | Feb. 3, 1819 |
| Do do - - - - - | James Lyon - | Statesburg, S. C. - | April 3, 1819 |
| Do do or vessels - - - - | David Cooke - | Jersey City - - | April 16, 1819 |
| Do ferry boats - - - - - | Robert Spedden - | Easton, Md. - | Aug. 26, 1819 |
| Do boats by horse power - - - | Dan'l French & Pliny Bliss - - | Hamilton, O. - | Jan. 22, 1820 |

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|---|---|---|---|---|
| Do | boats by wings | Jos. S. Dyster | Baltimore, Md. | Feb. 9, 1820 |
| Do | do machinery for | William R. Lowerie | Flushing, N. Y. | Mar. 29, 1820 |
| Do | do | John J. Giraud | Baltimore, Md. | April 19, 1820 |
| Do | do by setting poles | Robert Kenny | Augusta co., Va. | June 17, 1820 |
| Do | do | Jacob Coon and Benjamin Hyde | Hartford, N. Y. | July 11, 1820 |
| Do | vessels | John J. Giraud | Baltimore, Md. | Nov. 22, 1820 |
| Do | boats, machinery for | Do | Do | Jan. 3, 1821 |
| Do | horse boats | Barnabas Langdon | Troy, N. Y. | May 1, 1821 |
| Do | boats by a revolving lever | Lewis Marchand | Blakely, Ala. | July 10, 1822 |
| Do | do | J. Chittenden and A. W. Delano | Stephenson, N. Y. | May 1, 1823 |
| Do | do by step wheel | F. Waterman, 3d | Washington, D. C. | May 9, 1823 |
| Do | do a two horse engine | Benjamin F. Jocelyn | Schenectady, N. Y. | Aug. 21, 1824 |
| Do | circular levers | John Turner | Marcellus, N. Y. | Mar. 12, 1825 |
| Do | lever, alternate | Robert Smith | Port Gibson, Miss. | June 9, 1825 |
| Do | boats | Henry R. Teller | Schenectady, N. Y. | Sept. 28, 1825 |
| Do | do | Chauncey Crafts | Woodbury, Ct. | Mar. 29, 1826 |
| Do | do and vessels | John J. Giraud | Baltimore, Md. | Dec. 12, 1826 |
| Do | do | Elisha Fuller | Providence, R. I. | Mar. 2, 1827 |
| Do | vessels at sea | Elijah Bryan | New York | Dec. 22, 1827 |
| Do | boats or carriages | Timothy Davis | Lawrence, Ind. | Mar. 15, 1828 |
| Do | spring and marine valve | William Willis | Charleston, S. C. | May 2, 1828 |
| Do | ships, &c. | Anthony Hermange | Baltimore, Md. | May 31, 1828 |
| Do | vessels | Hull Case | Norwalk, O. | Aug. 13, 1828 |
| Do | boats by hydraulic apparatus | Benjamin Phillips | Philadelphia, Pa. | Aug. 16, 1828 |
| Do | do across ferries | Stephen Ross | Troy, N. Y. | Oct. 30, 1828 |
| Do | ships, &c. | Anthony Hermange | Baltimore, Md. | Nov. 26, 1828 |
| Do | do improvement on Hermange and Steenstrup's | Do | Do | Nov. 26, 1828 |

LIST OF PATENTS—NAVIGATION—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Propelling canal boats | Nathaniel Bingham & Pliny Warner | Rochester, N. Y. | Dec. 15, 1828 |
| Do do and other boats | Samuel D. Bennett | Butternuts, N. Y. | Jan. 30, 1829 |
| Do boats, &c. | Josiah White | Mauch Chunk, Pa. | June 11, 1829 |
| Do do | Benjamin M. Smith | Rochester, N. Y. | Nov. 20, 1829 |
| Power, maintaining, applied on board ships | David Pearson | Newbury, Mass. | Jan. 24, 1816 |
| Preserving vessels from worms | Raphael Peale | Pennsylvania | Dec. 14, 1798 |
| Do wood from marine insects | Robert L. Nicolls | Easton, Md. | Feb. 23, 1811 |
| Do timber under water | George Lovett | New York | April 1, 1815 |
| Do vessels from decay by charcoal | Anthony Planton | Philadelphia, Pa. | Oct. 1, 1825 |
| Pulley, loxodromic, for measuring ship's way | John S. Donlery | New York | Sept. 21, 1815 |
| Pumping ships by pendulous bellows | Benjamin Wynkoop | Pennsylvania | June 26, 1797 |
| Do do wheel power | S. Town and R. W. Oliphant | North Granville, N. Y. | April 8, 1826 |
| Do vessels by wind power | Thomas Brownell | New York | Mar. 23, 1827 |
| Pumps, working ship's | Manuel Francis | Boston, Mass. | July 7, 1829 |
| Do for ships | John Stickley | Massachusetts | Nov. 29, 1799 |
| Do do | George Clymer | Pennsylvania | Dec. 22, 1801 |
| Do do | Andrew Henshaw & Nath'l Harlow, jr. | Bangor, Mass. | Aug. 30, 1811 |
| Do do | John B. Pell | New York | Oct. 31, 1829 |
| Raft, wreck | A. Der Buc Marentille | New Jersey | Mar. 18, 1803 |
| Do | William Deane | Pittsburg, Pa. | Nov. 4, 1805 |
| timber | Daniel Gordon | Chanceford, Pa. | Feb. 14, 1818 |
| constructing | Henry Babb | Westbrook, Me. | Jan. 13, 1824 |

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|---|---|---|---|
| Railway, marine | John Rogers | Washington, D. C. | June 24, 1822 |
| Do do sub | John Thomas | New York | Nov. 6, 1826 |
| Do do | Richard Ward | Do | Dec. 28, 1826 |
| Do do | Jos. Webb | Do | May 14, 1827 |
| Do do flexible rack | Jesse Wood and P. A. Sabbatan | Do | Oct. 6, 1827 |
| Do do | John H. Greene | Providence, R. I. | May 26, 1828 |
| Do do | Daniel Rogers | Mobile, Ala. | April 3, 1829 |
| Rapid jack for ascending rapids | Augustus Sacket | New York | July 3, 1809 |
| Raising vessels out of the water | John T. Morgan | Do | Oct. 9, 1806 |
| Do canal boats and other vessels out of the water | Sylvester Doolittle | Rochester, N. Y. | Oct. 25, 1825 |
| Do boats on canals | Elisha Turner | Do | Nov. 18, 1825 |
| Do do | Do | Do | Dec. 31, 1825 |
| Do vessels for repair | Benj. Waterhouse | New York | April 15, 1826 |
| Do canal boats | Seth C. Jones | Rochester, N. Y. | June 16, 1826 |
| Do ships, &c., by cradle screw | Charles Miner | Lynn, Ct. | Oct. 12, 1827 |
| Do boats and vessels | Alfred Warner | Rochester, N. Y. | Nov. 16, 1826 |
| Do ships, &c., by cradle screw | Charles Miner | Lynn, Ct. | Nov. 16, 1827 |
| Do and lowering canal boats without locks | William Wiard | Avon, N. Y. | May 1, 1828 |
| Do ships, &c., out of water | John H. Greene | Providence, R. I. | May 26, 1828 |
| Rigging vessels | Isaac Garretson | Pennsylvania | May 29, 1797 |
| Do do | Stephen Sayre | Bordentown, N. J. | May 9, 1807 |
| Do to mast heads | W. H. Allen, U. S. N. | [Killed by the pirates] | April 25, 1822 |
| Do vessels | Samuel Wells | Boston, Mass. | July 24, 1822 |
| Do standing, of vessels | Benj. W. Booth | Washington, D. C. | Sept. 28, 1825 |
| Rowing, machine | Eb. Bryant | New London, Ct. | Jan. 13, 1806 |
| Do boats by lever and wheels | Roswell Hopkins | Hopkinson, N. Y. | Mar. 25, 1808 |
| Rudders, hanging | John Shaw | Philadelphia, Pa. | Mar. 17, 1818 |
| Do side, for steam boats | John L. Sullivan | Boston, Mass. | Dec. 11, 1818 |
| Do | Andrew Watkins | Salem, Mass. | May 21, 1824 |
| Sails of ships, regulating | Jos. S. Sampson | Boston, Mass. | July 5, 1793 |

LIST OF PATENTS—NAVIGATION—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Scows and boats | Elisha Sherman | Lansingburg, N. Y. | Mar. 2, 1809 |
| Do for sand | Rufus Elliot | Georgetown, D. C. | Feb. 14, 1818 |
| Sculling boats by steam | Jos. Hunt | East Chester, N. Y. | Mar. 11, 1812 |
| Do do | Isaac Silliman | Philadelphia, Pa. | Dec. 17, 1812 |
| Sheathing vessels | Henry Guest | New Jersey | Jan. 26, 1801 |
| Ships and vessels, structure | Jer. Brown | Rhode Island | May 14, 1800 |
| Do and boats, building | William Phoebus | New York | June 27, 1810 |
| Do &c., modelling | Fred. Tudor | Boston, Mass. | Dec. 17, 1812 |
| Do constructing and navigating | Benj. Connor | Portsmouth, N. H. | Aug. 26, 1813 |
| Do building | David M. Randolph | Richmond, Va. | Aug. 2, 1815 |
| Do do | Abel Brewster | Hartford, Ct. | Mar. 6, 1820 |
| Do machine for ascertaining the velocity of, and tides | Jas. D. Woodside | Washington, D. C. | Mar. 17, 1829 |
| Signals for vessels | Nathaniel Shaler | New York | Feb. 21, 1810 |
| Staging, swing | Elijah Drury | Washington, Mass. | Feb. 16, 1829 |
| Steering vessels | John Phillips & Jas. Smallman | Philadelphia, Pa. | Sept. 18, 1810 |
| Do do | Stephen G. Clark & Geo. Stimson | Charlestown, Mass. | April 26, 1826 |
| Do wheel | R. Kingsbury and E. Rowse | Bath, Me. | July 10, 1826 |
| Do ships, &c. | Michael Pierson | Newburyport, Mass. | April 1, 1829 |
| Steam boat | Edward West | Kentucky | July 6, 1802 |
| Steam boat, chain float | Michael Morrison | Boston, Mass. | Jan. 17, 1811 |
| Do do | John Evelett | Do | April 23, 1812 |
| Do do and engine | D. Large and F. Grice | Philadelphia, Pa. | Dec. 17, 1812 |

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|---|---|---|---|
| Do do | Daniel Dodd | Mendham, N. J. | Feb. 2, 1814 |
| Do ship, or floating battery | George Stiles | Baltimore, Md. | April 4, 1815 |
| Do boat, canal | Robert Hugunin | Albany, N. Y. | Mar. 24, 1823 |
| Do do for shallow water | Benjamin Phillips | New York | April 28, 1826 |
| Do do for canals | John F. Wright | Erie, Pa. | Feb. 14, 1828 |
| Table, sea | Wm. H. Richardson | Baltimore, Md. | June 9, 1809 |
| Do for use in ships | George Patrick | Wilkesbarre, Pa. | Nov. 8, 1814 |
| Tally, machine for keeping | Wm. A. Turner | Plymouth, N. C. | July 12, 1823 |
| Tide gauge | James D. Woodside | Washington, D. C. | April 14, 1824 |
| Timber, bending, for boat building | John Orbison | Piqua, Ohio | May 27, 1820 |
| Tow boat, steam, and warping windlass | John L. Sullivan | Boston, Mass. | April 2, 1814 |
| Do do | Do | Do | Dec. 4, 1816 |
| Towing boats on canals, apparatus for | Peter Cooper | New York | Jan. 24, 1820 |
| Do | Samuel Howard | Savannah, Geo. | May 24, 1820 |
| Do | Edward S. Townsend | Palmyra, N. Y. | Mar. 12, 1825 |
| Tow line for canal boats, of bullocks' hides | James Sanford | Weston, Ct. | Feb. 16, 1829 |
| Trenails for ships | Thomas Rowell | Hartford, Vt. | Dec. 13, 1821 |
| Truss, lever, and sling | Samuel Wells | Boston, Mass. | July 24, 1822 |
| Do for hanging ships' yards | Preserved Fish | New York | Sept. 24, 1824 |
| Do lever, and sling, for the yards of vessels | Samuel A. Wells | Boston, Mass. | Dec. 23, 1824 |
| Do cast iron | Enos Baldwin | New York | July 31, 1822 |
| Ventilating pump | Rd. Robotham | Do | Oct. 10, 1801 |
| Do vessels | Charles W. Skinner | Norfolk, Va. | Aug. 23, 1822 |
| Ventilators, nautical | Benjamin Wynkoop | Philadelphia, Pa. | June 19, 1795 |
| Vessels with crooked keels | Eliphalet Beebe | Pennsylvania | April 27, 1803 |
| Ways for drawing up vessels | Amasa Miller | New London, Ct. | Feb. 8, 1826 |
| Do do | Do | Do | July 7, 1828 |
| Weighing canal boats | Benjamin Bull | New York | June 20, 1826 |
| Do goods on board of boats | Thomas Cohoon | Troy, N. Y. | June 18, 1829 |
| Wheel, compound chain and band, for propelling boats by steam | Samuel Bolton | Philadelphia, Pa. | Nov. 1, 1810 |

## LIST OF PATENTS—NAVIGATION—Continued.

| INVENTIONS OR DISCOVERIES | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Wheel of elastic oars, for propelling boats | Lewis Latour | | Feb. 16, 1813 |
| Do screw, for propelling boats | James Widdefield | Philadelphia, Pa. | Oct. 11, 1815 |
| Do for propelling boats by animal power | Anthony Olney | Canton, Mass. | Dec. 11, 1817 |
| Do do do | John S. Trott | Boston, Mass. | June 2, 1818 |
| Do for boats | Hiram Brown | Lebanon, O. | July 24, 1818 |
| Do horse, for boats | R. Brown & J. Murphy | New York | Nov. 18, 1818 |
| Do double stern, for boats | John L. Sullivan | Boston, Mass. | Dec. 10, 1818 |
| Do helm, spiral | Rob. P. Cunningham | Pomfret, Ct. | Aug. 3, 1820 |
| Do for propelling boats | James Prince | New York | Oct. 2, 1820 |
| Do polygonal, and chain paddles | T. Elmer & A. Pierson | Bridgetown, N. J. | Jan. 31, 1822 |
| Do elbow, for propelling boats | Ralph Bulkley | New York | April 24, 1824 |
| Do steering | John M. Brown | Boston, Mass. | Mar. 24, 1826 |
| Do for steam boats | John J. Giraud | Baltimore, Md. | Sept. 15, 1826 |
| Do for propelling boats | Benj. Raymond, jr. | Beverly, Mass. | Nov. 13, 1826 |
| Do water, for steam boats | Rob. L. Stephens | Hoboken, N. J. | April 10, 1827 |
| Do float | Stacy Costill | Philadelphia, Pa. | Oct. 17, 1827 |
| Do inside lever, propelling | John G. Giraud | Baltimore, Md. | Dec. 1, 1829 |
| Windlass, ship | Hez. Betts | Norwalk, Ct. | Aug. 29, 1804 |
| Do and capstan | John Galvin | Philadelphia, Pa. | Nov. 6, 1810 |
| Do | Samuel Nicholson | Boston, Mass. | Dec. 1, 1828 |
| Yards of vessels, slinging | Isaac Carver, jr. | Prospect, Me. | Dec. 11, 1827 |
| Do suspending | Samuel A. Wells | Boston, Mass. | Jan. 23, 1828 |

## LIST OF PATENTEES—NAVIGATION.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Annesly, Wm. | New York | Boats and sea vessels, building | Sept. 12, 1816 |
| Adamson, John | Boston, Mass. | Dock, dry, floating | Dec. 13, 1816 |
| Anderson, Alex. | Philadelphia, Pa. | Propelling boats or vessels | Aug. 21, 1812 |
| Allen, Wm. H., U. S. N. | [Killed by the pirates] | Rigging to mast heads | April 25, 1822 |
| Ball, William | New York | Blubber knife | April 25, 1822 |
| Buel, Samuel | Burlington, Ct. | Boats, flat bottomed, with moveable keel | July 7, 1810 |
| Bond, Thomas J. | Baltimore, Md. | Do iron | Dec. 21, 1820 |
| Bell, Robert P. | New York | Do transporting on canals from one level to another | July 13, 1827 |
| Bromwell, Jacob | Cincinnati, Ohio | Do canal passage | June 23, 1829 |
| Bakewell, Thomas W. | Do | Do for canals | Aug. 25, 1829 |
| Do | Do | Building vessels, &c. | Feb. 21, 1827 |
| Brookfield, William | Detroit, Michigan | Diving, mode of | July 17, 1820 |
| Brux, Albert | Augusta, Ga. | Dock, dry, floating | Nov. 6, 1818 |
| Bulkley, Ralph | New York | Do do | Aug. 28, 1821 |
| Bergh, Christian | Do | Do do | April 29, 1825 |
| Buck, Ephraim, H. Crehore, R. Jerry, and A. Bayard | Boston, Mass. | Do elevating | July 11, 1825 |
| Barron, James | Norfolk, Va. | Do carrying and lifting trunk | Aug. 2, 1826 |
| Bailey, Azael | Havre de Grace, Md. | Fish, catching, by floating wharves | June 24, 1820 |
| Beale, Josiah | Alexandria, D. C. | Keels, swinging | Jan. 15, 1812 |
| Barney, Mathew | Massachusetts | Mud machine | May 4, 1803 |
| Baker, Charles T. | Providence, R. I. | Do | April 12, 1819 |
| Babcock, Abijah | New York | Propelling vessels | Dec. 2, 1793 |

LIST OF PATENTEES—NAVIGATION—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Bell, William | Pennsylvania | Propelling boats | Nov. 24, 1803 |
| Browne, Rodman | New York | Do do by horses, mules, &c. | July 18, 1816 |
| Bartholomew, Abra. | Albany | Do do | Dec. 1, 1818 |
| Bryan, Elijah | New York | Do do vessels at sea | Dec. 22, 1827 |
| Bingham, Nathaniel, and Pliny Warner | Rochester, N. Y. | Do canal boats | Dec. 15, 1828 |
| Bennet, Samuel D. | Butternuts | Do do and other boats | Jan. 30, 1829 |
| Brownell, Thomas | New York | Pumping vessels by wind power | Mar. 23, 1827 |
| Babb, Henry | Westbrook, Md. | Raft, constructing | Jan. 13, 1824 |
| Booth, Benjamin W. | Washington, D. C. | Rigging, standing, of vessels | Sept. 28, 1825 |
| Bryant, Ebenezer | New London, Ct. | Rowing machine | Jan. 13, 1806 |
| Brown, Jeremiah | Rhode Island | Ships and vessels, structure of | May 14, 1800 |
| Brewster, Abel | Hartford, Ct. | Do building | Mar. 6, 1820 |
| Baldwin, Enos | New York | Truss, cast iron | July 31, 1822 |
| Beebe, Eliphalet | Pennsylvania | Vessels with crooked keels | April 27, 1803 |
| Bull, Benjamin | New York | Weighing canal boats | June 20, 1826 |
| Bolton, Samuel | Philadelphia, Pa. | Wheel, compound chain and band, for propelling boats by steam | Nov. 1, 1810 |
| Brown, Hiram | Lebanon, Ohio | Wheel for boats | July 24, 1818 |
| Brown, Rodman, and John Murphy | New York | Do horse, for boats | Nov. 18, 1818 |
| Buckley, Ralph | Do | Do elbow, for propelling boats | April 24, 1824 |
| Brown, John M. | Boston, Mass. | Do steering | Mar. 25, 1826 |
| Betts, Hez. | Norwalk, Ct. | Windlass, ship | Aug. 29, 1804 |

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|---|---|---|---|
| Covenhoven, Edmd. | Greenburg, N. Y. | Dock, dry, floating | Oct. 30, 1821 |
| Clark, Levi H., and Lewis M. Wiss | New York | Dock, dry, fresh water | Nov. 22, 1825 |
| Campbell, Harvey W. | Lockport, N. Y. | Excavator, floating | Jan. 22, 1828 |
| Cohoon, Thomas | Pittsfield, Mass. | Ferry boat | June 25, 1813 |
| Colver, Stephen | Connecticut | Heaving down vessels, and raising weights | Dec. 14, 1798 |
| Crowninshield, John | Salem, Mass. | Do do do | Oct. 19, 1827 |
| Crafts, Moses | Troy, N. Y. | Horse boat | Feb. 14, 1809 |
| Colver, Stephen | Connecticut | Mud machine | Dec. 14, 1798 |
| Collins, Samuel | New York | Do | Sept. 26, 1826 |
| Clark, Edward | Philadelphia, Pa. | Navigating and ferrying rivers | June 25, 1823 |
| Claiborn, Richard | Virginia | Paddles for boats | Feb. 23, 1802 |
| Clark, Edward | New York | Inclined plane for drawing up vessels | June 27, 1825 |
| Cerneau, Jos. | Do | Propelling boats by pendulum power | Aug. 28, 1817 |
| Do | Do | Do do | Mar. 6, 1818 |
| Cooke, David | Jersey City | Do do or vessels | April 16, 1819 |
| Coon, Jac., and Benj. Hyde | Hartford, N. Y. | Do boats | July 11, 1820 |
| Crafts, Chauncey | Woodbury, Ct. | Do do | Mar. 29, 1826 |
| Case, Hull | Norwalk, Ohio | Do vessels | Aug. 13, 1828 |
| Chittenden, J., and A. W. Delano | Stephenson, N. Y. | Do boats | May 1, 1823 |
| Clymer, George | Pennsylvania | Pumps for ships | Dec. 22, 1801 |
| Conner, Benjamin | Portsmouth, N. H. | Ships, constructing and navigating | Aug. 26, 1813 |
| Clark, Stephen G., and Geo. Stimson | Charlestown, Mass. | Steering vessels | April 26, 1826 |
| Cooper, Peter | New York | Towing boats on canals, apparatus for | Jan. 24, 1820 |
| Cohoon, Thomas | Troy, N. Y. | Weighing goods on board of boats | June 18, 1829 |
| Cunningham, Robt. P. | Pomfret, Ct. | Wheel, helm, spiral | Aug. 3, 1820 |
| Castill, Stacy | Philadelphia, Pa. | Do float | Oct. 17, 1827 |
| Carver, Isaac, jr. | Prospect, Me. | Yards of vessels, slinging | Dec. 11, 1827 |

LIST OF PATENTEES—NAVIGATION—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Dawson, N. C., and A. Rucker | Pedlar's Mills, Va. | Boats for rivers | April 3, 1821 |
| Davidson, Wm. C., & Daniel Clark | Pittsford, N. Y. | Diving suit | July 26, 1824 |
| Denny, John | Queen Ann co., Md. | Floating vessels | Oct. 3, 1822 |
| Dunham, David | New York | Horse boat machinery | June 28, 1814 |
| Davis, Samuel | Baltimore, Md. | Mud machine, floating | Jan. 22, 1817 |
| Do | Do | Do | Mar. 28, 1818 |
| Doxey, B. S. | Do | Paddles for wheels, gearing and ungearing | Feb. 9, 1821 |
| Durand, J. P. | New York | Propelling vessels by animal power | Oct. 3, 1817 |
| Do | Do | Do boats | Jan. 17, 1818 |
| Dyster, Joseph S. | Baltimore, Md. | Do do by wings | Feb. 9, 1820 |
| Davis, Timothy | Lawrence, Ind. | Do do or carriages | Mar. 15, 1828 |
| Donlery, John S. | New York | Pulley, loxodromic for measuring ships' way | Sept. 21, 1815 |
| Deane, William | Pittsburg, Pa. | Raft | Nov. 4, 1805 |
| Doolittle, Sylvester | Rochester, N. Y. | Raising canal boats and other vessels out of the water | Oct. 25, 1825 |
| Drury, Elijah | Washington, Mass. | Staging, swing | Feb. 16, 1829 |
| Dodd, Daniel | Mendham, N. J. | Steam boat | Feb. 2, 1814 |
| Evans, James | Charlestown, Mass. | Blocks, snatch | Dec. 6, 1828 |
| Ely, John C. | New York | Dock, screw | Jan. 28, 1829 |
| Ellicott, Joseph | Pennsylvania | Fish, catching | May 25, 1795 |
| Emerson, Hawley | Hancock | Do do wear for | Aug. 14, 1811 |
| Eveleth, John | | Mud machine | Feb. 21, 1826 |
| Do | Georgetown, D. C. | Do | Aug. 9, 1821 |
| Elliot, Rufus | Do | Scows for sand | Feb. 14, 1818 |

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|---|---|---|---|
| Evelett, John | Boston, Mass. | Steamboat | April 23, 1812 |
| Elmer, T., and J. Pierson | Bridgetown, N. J. | Wheel, polygonal, and chain paddles | Jan 21, 1822 |
| Flower, William | Philadelphia, Pa. | Buoy, life | May 14, 1808 |
| Fountaine, Garrett | Staten Island, N. Y. | Centre board to increase the speed of vessels | Mar. 15, 1825 |
| Floyd, John | Kittery, Me. | Dock, dry, floating | Aug. 17, 1826 |
| Freeman, Peter | Morris co., N. J. | Friction, lessening, in canal boats | June 1, 1825 |
| Fuller, Salmon | Clarke co., Indiana | Horse boat | Feb. 19, 1811 |
| Freeland, John | New York | Oyster platform | April 29, 1828 |
| Fitch, John | Philadelphia, Pa. | Propelling boats by steam | Aug. 26, 1791 |
| Farnham, Henry | Albany, N. Y. | Do do | Sept. 5, 1818 |
| French, Dan., & Pliny Bliss | Hamilton, O. | Do do by horse power | June 22, 1820 |
| Fuller, Elisha | Providence, R. I. | Do do | Mar. 2, 1827 |
| Francis, Manuel | Boston, Mass. | Pumps, working ships' | July 7, 1829 |
| Fish, Preserved | New York | Truss for hanging ships' yards | Sept. 24, 1824 |
| Grieve, David | Massachusetts | Boat for ascending rivers | Feb. 24, 1801 |
| Geissenheimer, Ford W. | New York | Do rapids | Jan. 14, 1814 |
| Graves, Robert | Brooklyn, N. Y. | Do passing up and down elevations on canals | July 26, 1827 |
| Gardiner, John | Washington, D. C. | Dock, dry | Dec. 3, 1802 |
| Genet, E. C. | New York | Fender for steamboats | Sept. 9, 1825 |
| Gordon, Daniel | Lower Chance Ford, P. | Fish, catching | Mar. 27, 1824 |
| Gray, George | Lynn | Lights for decks of ships | Mar. 26, 1825 |
| Gould, Chester | Pennsylvania | Log for ships | May 27, 1799 |
| Greenleaf, John | Massachusetts | Mud machine | July 13, 1802 |
| Godley, Joseph | Alexandria, N. J. | Navigating rivers | Feb. 22, 1823 |
| Giraud, John J. | Baltimore Md. | Navigation, improvement in | Jan. 31, 1827 |
| Do | Do | Paddles, water | Sept. 18, 1827 |
| Gregg, Thomas | Connellsville, Pa. | Propelling ball proof vessels by steam applied under water | Mar. 19, 1813 |
| Giraud, John J. | Baltimore, Md. | Do boats | April 10, 1818 |
| Gray, Jer. | Peekskill, N. Y. | Do do | Nov. 18, 1818 |

LIST OF PATENTEES—NAVIGATION—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Giraud, John J. | Baltimore, Md. | Propelling boats | April 19, 1820 |
| Do | Do | Do vessels | Nov. 22, 1820 |
| Do | Do | Do boats, machinery for | Jan. 3, 1821 |
| Do | Do | Do do and vessels | Dec. 12, 1826 |
| Gordon, Daniel | Chanceford, Pa. | Raft, timber | Feb. 14, 1818 |
| Greene, John H. | Providence, R. I. | Railway, marine | May 26, 1828 |
| Do | Do | Raising ships, &c., out of water | May 26, 1828 |
| Garretson, Isaac | Pennsylvania | Rigging vessels | May 29, 1797 |
| Guest, Henry | New Jersey | Sheathing vessels | Jan. 26, 1801 |
| Giraud, John J. | Baltimore, Md. | Wheel for steamboats | Sept. 15, 1826 |
| Do | Do | Do inside lever propelling | Dec. 1, 1829 |
| Galvin, John | Philadelphia, Pa. | Windlass and capstain | Nov. 6, 1810 |
| Hollins, William | Baltimore, Md. | Ark, safety | May 4, 1824 |
| Hopkins, William | Connecticut | Boatbuilding | May 13, 1803 |
| Hall, Chauncey | Do | Diving dress | Dec. 24, 1810 |
| Hall, Philander | - | Keel, false, swinging | April 2, 1816 |
| Haskell, Roger | Geneva, N. Y. | Navigable mercantile house | July 7, 1821 |
| Hunn, Anthony | Danville, Ky. | Navigation, improvement in | Mar. 24, 1804 |
| Heilbrown, Adolph. | New York | Do do machinery | Mar. 16, 1829 |
| Heavin, John | Montgomery co., Va. | Propelling boats | April 17, 1806 |
| Heaton, Phile'n, Mark B. Boyer, & Philemon Heaton, jr. | - | Do do | March 4, 1808 |
| Hermange, Anthony | Baltimore, Md. | Do ships, &c. | May 31, 1828 |
| Do | Do | Do do | Nov. 26, 1828 |

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|---|---|---|---|
| Do - | Do - | Propelling ships, improvement on Hermange and Steenstrup's - - - - - - | Nov. 26, 1828 |
| Henshaw, And., & Nat. Harcourt, jr. - | Bangor, Mass. - | Pumps for ships - - - - - | Aug. 30, 1811 |
| Hopkins, Roswell - | Hopkinson, N. Y. - | Rowing boats by lever and wheels - - - | Mar. 25, 1808. |
| Hunt, Joseph - | East Chester, N. Y. - | Sculling boats by steam - - - - | Mar. 11, 1812 |
| Hugunin, Robert - | Albany, N. Y. - | Steamboat, canal - - - - - | Mar. 24, 1823 |
| Howard, Samuel - | Savannah, Ga. - | Towing boats - - - - - | May 24, 1820 |
| Isnard, Maximin - | New York - - | Dock, buoyant - - - - - | June 22, 1826 |
| Isaacs, Moses - | Philadelphia, Pa. - | Horse boat - - - - - - | Mar. 17, 1818 |
| Jenks, Eb. - - | Colebrook, Ct. - | Paddles, folding boat - - - - - | June 6, 1817 |
| Josselyn, Christ. - | New York - - | Plugs, machine for cutting for waists and decks of ships | June 28, 1826 |
| Jossilyn, James - | Do - - | Do do do do do - | May 3, 1828 |
| Jocelyn, Benj. F. - | Schenectady, N. Y. - | Propelling boats, a two horse engine - - - | Aug. 21, 1824 |
| Jones, Seth C. - | Rochester, N. Y. - | Raising canal boats - - - - - | June 16, 1826 |
| Keller, Daniel - | Pennsylvania - | Boat for descending rapid streams - - - | Nov. 5, 1799 |
| Kearsing, Wm. F. - | New York - - | Paddles for wheels of boats - - - - | Dec. 8, 1826 |
| Knight, William - | Morristown, N. J. - | Plane, inclined, for raising and lowering canal boats - | Aug. 5, 1828 |
| Kendrick, John - | Newton, Mass. - | Ploughing, submarine - - - - | June 10, 1818 |
| Keller, Daniel - | Pennsylvania - | Propelling boats - - - - - | May 25, 1795 |
| Kearsing, Thomas - | New York - - | Do do - - - - - | June 6, 1818 |
| Kinny, Robert - | Augusta co., Va. - | Do do by setting poles - - - | June 17, 1820 |
| Kingsbury, R., and E. Rowse - - | Bath, Me. - - | Steering wheel - - - - - | July 10, 1826 |
| Lewis, Winslow - | Boston, Mass. - | Binnacle lights - - - - - | June 24, 1828 |
| Lies, Bennett - | New York - - | Boat, rocking or lever - - - - | June 20, 1815 |
| Langley, Lemuel - | Gosport, Va. - | Compass, mariner's, fixing - - - - | June 23, 1828 |
| Lowerie, Wm. R. - | New York - - | Dock, dry, floating - - - - - | June 23, 1825 |
| Lamb, John - - | Amboy, N. J. - | Hearths, fire, for ships - - - - | Mar. 18, 1820 |
| Langdon, Barnabas, & John C. Langdon - | Troy, N. Y. - | Horseboat - - - - - - | June 5, 1819 |

## LIST OF PATENTEES—NAVIGATION—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Livingston, Gilbert | New York | Keels of vessels | Oct. 22, 1803 |
| Livingston, Robert L. | Clermont, N. Y. | Paddles and chain wheels for boats | June 13, 1812 |
| Lies, Bennett | New York | Predrometer, sea | June 20, 1815 |
| Langdon, Barnabas | Whitehall, N. Y. | Propelling boats, carriages, &c. | Feb. 22, 1817 |
| Lewis, William J. | Virginia | Do do and vessels | Feb. 3, 1819 |
| Lyon, James | Statesburg, S. C. | Do do | April 3, 1819 |
| Lowerie, Wm. R. | Flushing, N. Y. | Do do machinery for | Mar. 29, 1820 |
| Langdon, Barnabas | Troy, N. Y. | Do horseboats | May 1, 1821 |
| Lovett, George | New York | Preserving timber under water | April 1, 1815 |
| Large, Dan., & Francis Grier | Philadelphia, Pa. | Steamboat and engine | Dec. 17, 1812 |
| Latour, Lewis | - - - | Wheel of elastic oars for propelling boats | Feb. 16, 1813 |
| Marentinne, Dulric A. | - - - | Boat, insubmersible | Dec. 23, 1822 |
| Marentille, Ab. De Buc | New Jersey | Chain, marine | Mar. 18, 1803 |
| Mellus, William | Dorchester, Mass. | Covering heads of nails, bolts, &c. | Aug. 3, 1822 |
| Magrath, Pat'k | Philadelphia, Pa. | Dams, river, for the easy passage of fish up and down | Oct. 10, 1829 |
| Morris, Eph. | Bloomfield Town'p, Pa. | Inclined plane for raising and lowering canal boats from one level to another | Oct. 13, 1829 |
| Martin, John | New York | Propelling boats | Nov. 21, 1797 |
| Manny, Gab. | Montgomery, N. Y. | Do do | June 8, 1815 |
| Martin, Moses | Woodbridge, N. J. | Do do by weights | July 8, 1816 |
| Marchand, Lewis | Blakely, Ala. | Do do by a revolving lever | July 10, 1822 |
| Marentille, Ab. De Buc | New Jersey | Raft, wreck | Mar. 18, 1803 |
| Morgan, John T. | New York | Raising vessels out of the water | Oct. 9, 1806 |
| Miner, Charles | Lynn, Conn. | Do ships, &c., by cradle screw | Oct. 12, 1827 |

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|---|---|---|---|
| Do | Do | Do do do | Nov. 16, 1827 |
| Morrison, Mich. | Boston, Mass. | Steamboat, chain float | Jan. 17, 1811 |
| Miller, Amasa | New London, Ct. | Ways for drawing up vessels | Feb. 8, 1826 |
| Do | Do | Do do | July 7, 1828 |
| Newman, John | Providence, R. I. | Mud machine | June 27, 1829 |
| Nicholls, Robert L. | Easton, Md. | Preserving wood from marine insects | Feb. 23, 1811 |
| Nicholson, Samuel | Boston, Mass. | Windlass | Dec. 1, 1828 |
| Oakes, Joshua | Do | Lights, glass, for ships | May 11, 1822 |
| Orbison, John | Piqua, Ohio | Oar heads | Mar. 27, 1820 |
| Do | Do | Timber, bending, for boat building | May 27, 1820 |
| Olney, Anthony | Canton, Mass. | Wheel for propelling boats by animal power | Dec. 11, 1817 |
| Porter, David | Washington, D. C. | Boat worked by quadrupeds | Feb. 8, 1816 |
| Phillips, Benjamin | Philadelphia, Pa. | Do for canals | April 21, 1828 |
| Pratt, John | Middletown, Ct. | Composition for bottoms of vessels | Jan. 14, 1809 |
| Place, Alonzo | New York | Dock, dry | April 1, 1826 |
| Phelps, Oliver | Lansing, N. Y. | Floor, elastic, for propelling boats | Nov. 17, 1821 |
| Purden, William | Baltimore, Md. | Hoisting machine | Mar. 19, 1806 |
| Pierson, Asahel | Cumberland co., N. J. | Paddles, chain, for boats | Mar. 2, 1811 |
| Perkins, Jac. | London, England | Do wheels | Nov. 30, 1829 |
| Pearce, James A. | Louisville, Ky. | Propelling boats | April 7, 1807 |
| Phillips, Benjamin | Philadelphia, Pa. | Do by hydraulic apparatus | Aug. 16, 1828 |
| Pearson, David | Newbury, Mass. | Power, maintaining, applied on board ships | Jan. 24, 1816 |
| Peale, Raphael | Pennsylvania | Preserving vessels from worms | Dec. 14, 1798 |
| Planton, Anthony | Philadelphia, Pa. | Do do from decay by charcoal | Oct. 1, 1825 |
| Pell, John B. | New York | Pumps for ships | Oct. 31, 1829 |
| Phœbus, William | Do | Ships and boats, building | June 27, 1810 |
| Phillips, John, and Jas. Smallman | Philadelphia, Pa. | Steering vessels | Sept. 18, 1810 |
| Pierson, Michael | Newburyport, Mass. | Do ships, &c. | April 1, 1829 |
| Phillips, Benjamin | New York | Steamboat for shallow water | April 28, 1826 |
| Patrick, George | Wilkesbarre, Pa. | Table for use in ships | Nov. 8, 1814 |

## LIST OF PATENTEES—NAVIGATION—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Prince, James | New York | Wheel for propelling boats | Oct. 2, 1820 |
| Rotch, Francis | New Bedford, Mass. | Boats and vessels, constructing | Nov. 29, 1811 |
| Do | Philadelphia, Pa. | Do do do | Aug. 3, 1812 |
| Russell, William, jr. | New Bedford, Mass. | Composition for bottoms of vessels | Nov. 8, 1819 |
| Russell, James | Do | Do do do | Jan. 29, 1820 |
| Rhodes, William | New York | Dock, dry, floating | Mar. 16, 1808 |
| Rose, Samuel | Do | Do do | June 15, 1812 |
| Rogers, Moses | Do | Dock, projecting | Jan. 7, 1817 |
| Rotch, Benjamin | Bristol, England | Fids for ships' masts | Dec. 10, 1823 |
| Robbins, Nathaniel | New Jersey | Fish, mode of carrying in warm weather | Mar. 11, 1802 |
| Randolph, John F. | New York | Floating machine for supplying ships with fresh water | April 5, 1811 |
| Rogers, Robert | Dover, N. H. | Lanyards, chain | Feb. 6, 1823 |
| Renwick, James | New York | Navigation, improvement in internal | Nov. 7, 1823 |
| Ramsay, James | Berkeley co., Va. | Propelling boats or vessels | Aug. 26, 1791 |
| Rogers, Moses | New York | Do do by animal power | Feb. 9, 1814 |
| Roosevelt, Nich. J. | New Jersey | Do do by steam | Dec. 1, 1814 |
| Rogers, Moses | New York | Do do by animal power | Mar. 3, 1815 |
| Rudd, Stephen | Do | Do vessels in a calm | June 14, 1816 |
| Ross, Stephen | Troy, N. Y. | Do boats across ferries | Oct. 30, 1828 |
| Rogers, John | Washington, D. C. | Railway, marine | June 24, 1822 |
| Rogers, Daniel | Mobile, Ala. | Do do | April 3, 1829 |
| Randolph, David M. | Richmond, Va. | Shipbuilding | Aug. 2, 1815 |
| Richardson, Wm. H. | Baltimore, Md. | Table for sea | June 9, 1809 |
| Rowell, Thomas | Hartford, Vt. | Trenails for ships | Dec. 13, 1821 |
| Robotham, Rd. | New York | Ventilating pump | Oct. 10, 1810 |

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|---|---|---|---|
| Raymond, Benj., jr. | Beverly, Mass. | Wheel for propelling boats | Nov. 13, 1826 |
| Smith, Joseph F. | Baltimore, Md. | Binnacle lights | June 1, 1825 |
| Selden, Elias | Haddam, Ct. | Dock, dry | July 30, 1829 |
| Swain, Jacox, H. Swain, and Joshua Swain | Cape May c. h., N.J. | Leeboard | April 10, 1811 |
| Shultz, William | Baltimore, Md. | Mud machine | June 16, 1809 |
| Seaman, Corn. | Washington co., Md. | Oar head | Aug. 15, 1817 |
| Sullivan, John L. | Boston, Mass. | Paddles for propelling ships | April 28, 1818 |
| Scarborough, William | Darien, Geo. | Planking vessels | May 19, 1824 |
| Sprague, William P. | Pennsylvania | Propelling boats by horse power | June 19, 1795 |
| Starr, Jehosaphat | Connecticut | Do do &c., by steam | April 28, 1797 |
| Strondinger, Charles | New Jersey | Do vessels | June 2, 1798 |
| Shackford, Josiah | New York | Do boats | Mar. 21, 1799 |
| Stilwell, Samuel, and Daniel T. Wandell | Do | Do apparatus for boats | June 3, 1808 |
| Shaw, William | Otsego, N. Y. | Do and rowing boats | Feb. 19, 1812 |
| Shultz, William | Philadelphia, Pa. | Do hydraulic boats against currents | May 28, 1812 |
| Shaw, William | Otsego, N. Y. | Do boats, working mills, &c. | June 5, 1812 |
| Schenck, John T. | New York | Do do by levers and weights | Oct. 23, 1812 |
| Sullivan, John L. | Boston, Mass. | Do machine, called the submarine propeller | Mar. 24, 1817 |
| Do | Do | Do boats by the application of condensed air | Mar. 24, 1817 |
| St. Deprest, Rennie | New York | Do do | May 9, 1818 |
| Spedden, Robert | Easton, Md. | Do ferry boats | Aug. 26, 1819 |
| Smith, Robert | Port Gibson, Miss. | Do lever, alternate | June 9, 1825 |
| Small, Benj. M. | Rochester, N. Y. | Do boats | Nov. 20, 1829 |
| Stickley, John | Massachusetts | Pumps for ships | Nov. 29, 1799 |
| Sacket, Augustus | New York | Rapid jack for ascending rapids | July 3, 1809 |
| Sayre, Stephen | Bordentown, N. J. | Rigging vessels | May 9, 1807 |
| Shaw. John | Philadelphia, Pa. | Rudders, hanging | Mar. 17, 1818 |
| Sullivan, John L. | Boston, Mass. | Rudder, side, for steamboats | Dec. 11, 1818 |
| Sampson, Joseph S. | Do | Sails for ships, regulating | July 5, 1793 |

## LIST OF PATENTEES—NAVIGATION—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Shirman, Elisha | Lansingburg, N. Y. | Scows and boats | Mar. 2, 1809 |
| Silliman, Isaac | Philadelphia, Pa. | Sculling boats by steam | Dec. 17, 1812 |
| Shaler, Nathaniel | New York | Signals for vessels | Feb. 21, 1810 |
| Stiles, George | Baltimore, Md. | Steam ship or floating battery | April 4, 1815 |
| Sullivan, John L. | Boston, Mass. | Towboat, steam, and warping windlass | April 2, 1814 |
| Do | Do | Do do | Dec. 4, 1816 |
| Sanford, James | Weston, Ct. | Tow line for canal boats of bullocks' hides | Feb. 16, 1829 |
| Skinner, Charles W. | Norfolk, Va. | Ventilating vessels | Aug. 23, 1822 |
| Sullivan, John L. | Boston, Mass. | Wheel, double stern, for boats | Dec. 10, 1818 |
| Stephens, Robert L. | Hoboken, N. J. | Do water, for steamboats | April 10, 1827 |
| Thomas, John | Washington, D. C. | Naval architecture | April 14, 1825 |
| Do | New York | Bilge, lever, for supporting ships | Nov. 6, 1826 |
| Do | Do | Do ways | Oct. 10, 1829 |
| Do | Washington, D. C. | Blocks and wedges for raising ships | May 17, 1822 |
| Taber, Benjamin | Fair Haven, Mass. | Blubber, mincing whales' | Aug. 11, 1821 |
| Thwing, Lemuel | Dedham, Mass. | Boat for passing up rapids | Aug. 12, 1820 |
| Thorp, Thomas | Washington, D. C. | Do constructing | Aug. 31, 1827 |
| Tripe, Richard | Dover, N. H. | Diving machine | April 1, 1806 |
| Thomas, John | New York | Dock, railway | Feb. 24, 1826 |
| Turner, Elisha | Rochester, N. Y. | Do screw | Oct. 10, 1829 |
| Thomas, John | Washington, D. C. | Dowelling bit used in shipbuilding | April 2, 1825 |
| Taylor, Benjamin | New York | Impelling boats on water or land | April 25, 1808 |
| Tucker, James | Baltimore, Md. | Mud machine | Dec. 13, 1816 |
| Thornton, William | Washington, D. C. | Paddles or flutter wheels of boats | Dec. 23, 1824 |
| Thomas, John | Do | Planking vessels | Dec. 2, 1822 |

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| Tuthill, A. G. D. | New York | Propelling boats, &c., | Mar. 22, 1810 |
| Tatham, William | Washington, city D.C. | Do do by steam | April 18, 1816 |
| Taylor, Abm. | New York | Do do | Nov. 18, 1818 |
| Turner, John | Marcellus, N. Y. | Do circular levers | Mar. 12, 1825 |
| Teller, Henry R. | Schenectady, N. Y. | Do boats | Sept. 28, 1825 |
| Town, S., and R. W. Oliphant | North Granville, N.Y. | Pumping ships by wheel power | April 8, 1826 |
| Thomas, John | New York | Railway, sub marine, | Nov. 6, 1826 |
| Turner, Elisha | Rochester, N. Y. | Raising boats on canals | Nov. 18, 1825 |
| Do | Do | Do do | Dec. 31, 1825 |
| Tudor, Frederick | Boston, Mass. | Ships, &c., modelling | Dec. 17, 1812 |
| Turner, William A. | Plymouth, N. C. | Tally, machine for keeping | July 12, 1823 |
| Townsend, Edw. S. | Palmyra, N. Y. | Towing boats | Mar. 12, 1823 |
| Trott, John S. | Boston, Mass. | Wheel for propelling boats | June 2, 1818 |
| Ulman, M., & M. Isaacs | Philadelphia, Pa. | Propelling boats by pumps | Mar. 17, 1818 |
| Voight, Henry | Philadelphia, Pa. | Propelling boats by animal power | Aug. 10, 1791 |
| Wadsworth, William | Hartford, Ct. | Boat, anti-steam | July 17, 1806 |
| Williams, Benijah | Mendon, N. Y. | Do for canals | Mar. 3, 1829 |
| Whiting, Ruggles | Louisville, Ky. | Bulkhead, water tight, for steamboats | June 6, 1829 |
| Webb, Joseph | New York | Dock, dry, rotary | May 3, 1817 |
| Wells, James, jr. | Galloway, N. J. | Fish vessels and nets | Dec. 17, 1814 |
| Williams, John J. | Georgetown, D. C. | Ice breaking machine | Mar. 2, 1813 |
| Wyeth, Nath. J. | Cambridge, Mass. | Do cutting | Mar. 18, 1829 |
| Wiltse, James | Fishkill, N. Y. | Keels and kelsons of leeboard vessels | May 4, 1821 |
| Watchman, J., and J. Bratt | Baltimore, Md. | Mud machine | Feb. 18, 1825 |
| Williams, Michael | Albany, N. Y. | Navigating rivers in shoal water | Feb. 24, 1809 |
| Whittemore, Amos | Massachusetts | Perambulator, nautical | Nov. 19, 1796 |
| Williams, John | Deerfield, Mass. | Plane, inclined, for boats on canals | Mar. 23, 1804 |
| Wynkoop, Benj. | Philadelphia, Pa. | Propelling vessels | Sept. 13, 1794 |
| Wadsworth, William | Hartford, Ct. | Do boats | Mar. 15, 1808 |

LIST OF PATENTEES—NAVIGATION—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Wheatley, Henry W. | New York | Propelling boats by screw power | Dec. 30, 1818 |
| Waterman, F., 3d | Washington, D. C. | Do do by strap wheel | May 9, 1823 |
| Willis, William | Charleston, S. C. | Do do by spring and marine valve | May 2, 1828 |
| White, Josiah | Mauch Chunk, Pa. | Do do &c. | June 11, 1829 |
| Wynkoop, Benj. | Pennsylvania | Pumping ships by pendulous bellows | June 26, 1797 |
| Ward, Richard | New York | Railway, marine | Dec. 28, 1826 |
| Webb, Joseph | Do | Do do | May 14, 1827 |
| Wood, Jesse, and P. A. Sabbatan | Do | Do do flexible rack | Oct. 6, 1827 |
| Waterhouse, Benj. | Do | Raising vessels for repairs | April 15, 1826 |
| Warner, Alfred | Rochester, N. Y. | Do boats and vessels | Nov. 16, 1826 |
| Wiard, William | Avon, N. Y. | Do and lowering canal boats without locks | May 1, 1828 |
| Wells, Samuel | Boston, Mass. | Rigging vessels | July 24, 1822 |
| Watkins, Andrew | Salem, Mass. | Rudders | May 21, 1825 |
| Woodside, James D. | Washington, D. C. | Ships, machine for ascertaining the velocity of, and tides | Mar. 17, 1829 |
| West, Edward | Kentucky | Steamboat | July 6, 1802 |
| Wright, John F. | Erie, Pa. | Do for canals | Feb. 14, 1828 |
| Woodside, James D. | Washington, D. C. | Tide gauge | April 14, 1824 |
| Wells, Samuel | Boston, Mass. | Truss, lever, and sling | July 24, 1822 |
| Wells, Samuel A. | Do | Do do do for the yards of ships | Dec. 23, 1824 |
| Wynkoop, Benjamin | Philadelphia, Pa. | Ventilators, nautical | June 19, 1795 |
| Widdefield, James | Do | Wheel, screw, for propelling boats | Oct. 11, 1815 |
| Wells, Samuel A. | Boston, Mass. | Yards of vessels, suspending | Jan. 23, 1828 |
| Zaccharie, Peter | Baltimore, Md. | Mud machine | Nov. 24, 1791 |

## LIST OF PATENTS—LAND WORKS.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Bogging machine | Squire Collins | Hillsdale, N. Y. | Feb. 22, 1827 |
| Boring for water | Valentine Cook | - | Nov. 1, 1803 |
| Do posts, &c. | Anthony Butler | Vermont | Nov. 7, 1811 |
| Do for water | Levi Disbrow | New Brunswick, N. J. | Mar. 24, 1825 |
| Do earth | John R. Failing | Canajoharie, N. Y. | June 13, 1827 |
| Do do | Do | Do | Aug. 25, 1828 |
| Bridges | Charles W. Peale | Pennsylvania | Jan. 21, 1797 |
| Do | Charles Fowler | Do | Feb. 24, 1797 |
| Do | John Stickney | Massachusetts | June 3, 1797 |
| Do | Timothy Palmer | Do | Dec. 17, 1797 |
| Do | Theo. Burr | - | Feb. 14, 1806 |
| Do | Thomas Pope | New York | April 18, 1807 |
| Do | James Finley | Fayette co., Pa. | June 17, 1808 |
| Do chain, improvement on Finley's | John Templeman | Alleghany co., Md. | Aug. 16, 1808 |
| Do and other architectural work | Jos. J. Deyster | Philadelphia, Pa. | Feb. 23, 1810 |
| Do | John Templeman | Georgetown, D. C. | Mar. 6, 1810 |
| Do balance | Jona. Jessup | Yorktown, Pa. | July 1, 1811 |
| Do draw, rolling | Richard Crosbie | Newark, N. J. | Feb. 17, 1812 |
| Do | Lewis Wernwag | Pennsylvania | Mar. 28, 1812 |
| Do | Benjamin Connor | Portsmouth, N. H. | April 23, 1812 |
| Do frame | George Tabb | Martinsburg, Va. | Feb. 23, 1816 |
| Do | Theo. Burr | Burr Haven, Pa. | April 3, 1817 |
| Do | Naphtali Bishop | Barre, Vt. | Jan. 11, 1819 |
| Do | John Bragg | Montreal, Canada | Jan. 4, 1820 |
| Do | Ithiel Town | Fayetteville, N. C. | Jan. 28, 1820 |

## LIST OF PATENTS—LAND WORKS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Bridges, wooden aqueduct, for canals | Marshall Lewis | Chenango, N. Y. | April 12, 1820 |
| Do | William Woodmansee | Kingston, N. Y. | Mar. 6, 1827 |
| Do | Thomas P. Blakewell | Pittsburg, Pa. | May 15, 1827 |
| Do | Lewis Wernwag | Jefferson co., Va. | Dec. 22, 1829 |
| Do with draws | Garner Wilkinson | White Creek, N. Y. | May 5, 1827 |
| Canals, machine for excavating | Ichabod L. Skinner | Hartford, Ct. | May 3, 1820 |
| Do do digging | John Humes | Richmond, Va. | Nov. 10, 1821 |
| Do do do | Jer. Brainard | Rome, N. Y. | Feb. 10, 1826 |
| Do do excavating | Lot Forrester | Ridgefield, Ct. | May 10, 1826 |
| Do do do | George Hendricks | Urbana, Ohio | Aug. 5, 1829 |
| Carriage, railway | Charles Williams | Richmond, Va. | Jan. 18, 1820 |
| Do do | Richard P. Morgan | Stockbridge, Mass. | July 27, 1827 |
| Do do | Ross Winans | Vernon, N. J. | Oct. 11, 1828 |
| Do do | William Howard | Baltimore, Md. | Nov. 22, 1828 |
| Do do | Isaac Knight | Do | Mar. 18, 1829 |
| Do rail road | John L. Sullivan | Philadelphia, Pa. | April 6, 1829 |
| Do for removing heavy buildings | Ephraim Bowen | Ledyard, N. Y. | April 9, 1829 |
| Do cylindrical railway | Peter Fleming | Albany, N. Y. | May 4, 1829 |
| Do self adapting railway | James Wright | Columbia, Pa. | Sept. 10, 1829 |
| Do rail road | Hugh Finlay | Baltimore, Md. | Oct. 27, 1829 |
| Do do | John J. Reekers | Do | Dec. 11, 1829 |
| Carts, chain and railway, for levelling hills | John H. Morrison | Boscawen, N. H. | Sept. 28, 1813 |
| Do wagons, &c., machine for loading | Noah Osborn | Fairfield, Ct. | May 23, 1826 |
| Do for removing earth | Jer. Price | Lockport, N. Y. | May 18, 1827 |
| Do self loading | Waldren Beach | Philadelphia, Pa. | Feb. 5, 1828 |

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|---|---|---|---|
| Cartridges for blasting rocks, &c. | John B. Ives | Lebanon, Pa. | July 17, 1826 |
| Cellars, vaults, &c. | Ezra Ludlow | New York | Dec. 14, 1824 |
| Do do | Henry Hallack | Do | Oct. 24, 1826 |
| Curb or case for wells | Job Copperthwaite, sr. | | April 13, 1809 |
| Earth, raising and removing | Jos. Platt | New York, (Albany) | May 4, 1805 |
| Do machine for removing | Jacob Welsh | Boston, Mass. | May 6, 1805 |
| Do do do | Ichabod L. Skinner & Saml. F. Tooker | Hartford, Ct. | Mar. 23, 1820 |
| Do do do | Orange H. Dibble | Niagara co., N. Y. | Feb. 20, 1824 |
| Do do do called the ne plus ultra | Jer. Bailey | Philadelphia, Pa. | Mar. 21, 1825 |
| Do do do | William H. Doll | Harrisburg, Pa. | May 29, 1826 |
| Do do do | Pierson Reading | Trenton, N. J. | June 1, 1826 |
| Do do raising | Cyrus Barnard | Lynn, Pa. | July 14, 1826 |
| Do hauling from canals | Oliver Phelps | Lansing, N. Y. | July 16, 1827 |
| Excavating plough | James Richmond | Hudson, N. Y. | June 28, 1817 |
| Do machine | Darius Comstock | Lockport, N. Y. | Mar. 15, 1825 |
| Fencing | Richard Weems | Maryland | Mar. 16, 1801 |
| Do of clay posts | William Cooley | Bolton, Ct. | May 27, 1825 |
| Do grounds, &c. | Othello Church | Friendship, N. Y. | July 3, 1823 |
| Do repairing | Edward Pitkins | E. Hartford, Ct. | Dec. 13, 1828 |
| Do iron | Paulus Hedl | New York | Dec. 18, 1828 |
| Forts | Edward Clark | Philadelphia, Pa. | April 2, 1812 |
| Friction wheels for rail road carriages | H. B. Chew | Baltimore, Md. | April 9, 1829 |
| Gate, turnpike | Jer. Brainard | Canaan, N. Y. | April 16, 1810 |
| Do mortice water lock | William Martin | Windham co., Ct. | Jan. 15, 1820 |
| Do paddle for canal locks | Daniel Rogers | Little Falls, N. Y. | Mar. 17, 1826 |
| Do safety, for canals | Jac. Van Dorn | Glenn, N. Y. | May 14, 1827 |
| Do for locks of canals | Daniel Rogers | Little Falls, N. Y. | Jan. 4, 1828 |
| Land, machine for clearing | Thomas Oxley | Norfolk, Va. | April 18, 1821 |
| Locks for canals | Josiah White | Philadelphia, Pa. | Oct. 19, 1819 |
| Do do | George Bender | New York | Aug. 26, 1822 |

LIST OF PATENTS—LAND WORKS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Locks, canal, saving water in | Jonas P. Fairlamb | Wilmington, Del. | Nov. 27, 1823 |
| Do do preserving | Simeon Guilford | Lebanon, Pa. | July 10, 1826 |
| Locomotive carriage for inclined planes, &c. | Sands Olcott | Harsinus, N. J. | Sept. 11, 1829 |
| Do engine | William Howard | Baltimore, Md. | Dec. 10, 1828 |
| Mile mark, cast iron | William M. Summers | New York | Jan. 13, 1825 |
| Moulds for making stone posts for fences | Edward Boston | Gloucester, N. J. | Oct. 14, 1815 |
| Pile driving for bridges | John Stone | Concord, Mass. | Mar. 10, 1791 |
| Plane, double inclined, for canals | Archd. Tanner | Warren, Pa. | April 15, 1825 |
| Do inclined, for transporting carriages | M. Robinson | Henrico co., Va. | April 9, 1828 |
| Posts, boring holes in | James Corbett | Hanover, Pa. | Dec. 21, 1819 |
| Rail roads, constructing | John Stephens | Hoboken, N. J. | June 8, 1824 |
| Do do | Do | Do | Oct. 23, 1824 |
| Do single | Henry Sargeant | Boston, Mass. | May 6, 1825 |
| Do forest | Henry Pinkers & T. R. Williams | London, England | April 27, 1826 |
| Do and cars | James Wright | Columbia, Pa. | April 17, 1829 |
| Do and carriages | Isaac Knight | Baltimore, Md. | June 11, 1829 |
| Do for carriages to turn out and in | James Wright | Columbia, Pa. | June 11, 1829 |
| Railways | Charles Williams | Boston, Mass. | Nov. 16, 1821 |
| Do | Ed. Gray | Do | Mar. 15, 1825 |
| Do with a lift of 16 feet | Ethan Baldwin | Harrisburg, Pa. | May 6, 1826 |
| Do | J. Brown & G. W. Robinson | Providence, R. I. | June 6, 1826 |
| Do portable, endless | Jer. Price | New York | Sept. 15, 1826 |
| Roads, roller or wheel, and carriages for the same | John Gardiner | Washington, D. C. | Mar. 16, 1829 |

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|---|---|---|---|
| Rocks, machine for removing | Isaac Lazell | Massachusetts | May 18, 1798 |
| Do do boring under water | John B. Aveilhé | - - | Aug. 24, 1801 |
| Do do drilling | Elihu Jones and P. White | Brookfield, Mass. | Dec. 21, 1809 |
| Do do boring | John Sanford | Sharon, Ct. | Dec. 10, 1813 |
| Do blowing | John M. Syme | - - | Dec. 12, 1816 |
| Do blasting | Benoni Kinyon | Hillsdale, N. Y. | Mar. 15, 1819 |
| Do boring | Ephraim Gilbert | Rochester, N. Y. | July 22, 1823 |
| Do do | Israel Overall | Liberty, Ten. | Mar. 14, 1828 |
| Scraper or shovel | Nathan Whiting | Chester, Vt. | Mar. 19, 1819 |
| Do team shovel | Elisha Case | Canton, Ct. | April 23, 1822 |
| Do shovel, excavating | Thomas Pierce | Hartwick, N. Y. | Mar. 3, 1825 |
| Do do team | Gideon Davis and Jer Price | Georgetown Lockport, N. Y. | May 12, 1827 |
| Do metallic | Oliver Teal | Salina, N. Y. | Dec. 8, 1829 |
| Sign or guide boards | Stanley, Carter | Raymond, Mass. | Nov. 25, 1829 |
| Stairs for bridges or ferries | David Dunham | New York | June 28, 1814 |
| Streets, roads, &c., cleaning | John Tucker | Do | Nov. 10, 1819 |
| Stumps, machine for raising | Alexander Craig | New Hampshire | April 15, 1807 |
| Do do do | David Stone | Clermont, N. H. | July 27, 1809 |
| Do do do | Abieza H. Whitney | Bowdoinham, Me. | Mar. 15, 1826 |
| Do do do | Abijah Pratt | Jackson, N. Y. | Aug. 17, 1827 |
| Submarine passage | John Staples, jr. | New York | Mar. 18, 1801 |
| Telegraph | John Grout, jr. | Massachusetts | Oct. 24, 1800 |
| Do | William Shultz | Baltimore, Md. | June 14, 1809 |
| Do domestic | Daniel Pearson | Boston, Mass. | Mar. 2, 1822 |
| Do | James L. Elford | Charleston, S. C. | June 18, 1822 |
| Transporting weights | James Cornell | Brookfield, Vt. | Dec. 24, 1824 |
| Do and conveyance machine | John J. Reekers | Baltimore, Md. | July 21, 1828 |
| Trees, machine for tearing up | Salmon Gray | St. Lawrence co., N. Y. | July 15, 1818 |

## LIST OF PATENTS—LAND WORKS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Trees, machine for sawing, called the portable horse sawing machine | David Pierce | Poughkeepsie, N. Y. | April 3, 1829 |
| Wagon for removing earth | John Owings | Baltimore, Md. | Aug. 27, 1824 |
| Water, mode of obtaining | Timothy Davis | Lawrence towns'p, Ia. | April 14, 1828 |
| Wells, sinking in or under water | Peleg Easton | Nantucket, Mass. | Feb. 1, 1810 |
| Do do | Eber Hilyard | Philadelphia, Pa. | Sept. 10, 1817 |
| Do do | Tobias Ruffner | Kenhawa, Va. | Dec. 22, 1818 |
| Wharves, constructing | James Butler | Baltimore, Md. | Sept. 9, 1813 |

## LIST OF PATENTEES—LAND WORKS.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Aveilhé, John B. | | Machine for boring rocks under water | April 24, 1801 |
| Butler, Anthony | Vermont | Boring posts, &c. | Nov. 7, 1811 |
| Burr, Theo. | | Bridges | Feb. 14, 1806 |
| Do | Burr Haven, Pa. | Do | April 3, 1817 |
| Bishop, Naphtali | Barre, Vt. | Do | Jan. 11, 1819 |
| Bragg, John | Montreal, Canada | Do | Jan. 4, 1820 |
| Bakewell, Thomas P. | Pittsburg, Pa. | Do | May 15, 1827 |
| Brainard, Jer. | Rome, N. Y. | Canals, machine for digging | Feb. 10, 1826 |

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|---|---|---|---|
| Bowen, Eph. | Ledyard, N. Y. | Carriage for removing heavy buildings | April 9, 1829 |
| Beach, Waldren | Philadelphia, Pa. | Cart, self loading | Feb. 5, 1828 |
| Bailey, Jer. | Do | Earth, raising and removing, called the ne plus ultra | Mar. 21, 1825 |
| Barnard, Cyrus | Lynn, Pa. | Do machine for raising | July 14, 1826 |
| Brainard, Jer. | Canaan, N. Y. | Gate, turnpike | April 16, 1810 |
| Bender, George | New York | Locks for canals | Aug. 26, 1822 |
| Boston, Edward | Gloucester, N J. | Moulds for making stone posts for fences | Oct. 14, 1815 |
| Baldwin, Ethan | Harrisburg, Pa. | Railways with a lift of 16 feet | May 6, 1826 |
| Brown, J., and G. W. Robinson | Providence, R. I. | Railways | June 6, 1826 |
| Butler, James | Baltimore, Md. | Wharves, constructing | Sept. 9, 1813 |
| Collins, Squire | Hillsdale, N. Y. | Bogging machine | Feb. 22, 1827 |
| Cook, Valentine | | Boring for water | Nov. 1, 1803 |
| Crosbie, Richard | Newark, N. J. | Bridges, rolling draw | Feb. 17, 1812 |
| Connor, Benjamin | Portsmouth, N. H. | Do | April 23, 1812 |
| Copperthwaite, Job, sr. | | Curb, or case for wells | April 13, 1809 |
| Comstock, Darius | Lockport, N. Y. | Excavating plough | Mar. 15, 1825 |
| Cooley, William | Bolton, Ct. | Fencing of clay posts | May 27, 1805 |
| Church, Othello | Friendship, N. Y. | Do grounds, &c. | July 3, 1823 |
| Clark, Edward | Philadelphia, Pa. | Forts | April 2, 1812 |
| Chew, H. B. | Baltimore, Md. | Friction wheels for rail road carriages | April 9, 1829 |
| Corbett, James | Hanover, Pa. | Boring holes in posts | Dec. 21, 1819 |
| Case, Elisha | Canton, Ct. | Scraper or team shovel | April 23, 1822 |
| Carter, Stanley | Raynham, Mass. | Sign or guide boards | Nov. 25, 1829 |
| Craig, Alex'r | New Hampshire | Stumps, machine for raising | April 15, 1807 |
| Cornell, James | Brookfield, Vt. | Transporting weights | Dec. 24, 1824 |
| Disbrow, Levi | New Brunswick, N. J. | Boring for water | Mar. 24, 1825 |
| Deyster, Joseph J. | Philadelphia, Pa. | Bridges and other architectural work | Feb. 23, 1810 |
| Dibble, Orange H. | Niagara co., N. Y. | Earth, machine for removing | Feb. 20, 1824 |
| Doll, William H. | Harrisburg, Pa. | Do do do | May 29, 1826 |

LIST OF PATENTEES—LAND WORKS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Davis, Gideon, and Jer. Price | Georgetown, D. C. Lockport, N. Y. | Scraper or shovel, team | May 12, 1827 |
| Dunham, David | New York | Stairs for bridges or ferries | June 28, 1814 |
| Davis, Timothy | Lawrence town'p, Ind. | Mode of obtaining water | April 14, 1828 |
| Elford, James L. | Charleston, S. C. | Telegraph | June 18, 1822 |
| Easton, Peleg | Nantucket, Mass. | Wells, sinking in or under water | Feb. 1, 1810 |
| Failing, John R. | Canajoharie, N. Y. | Boring earth | June 13, 1827 |
| Do | Do | Do do | Aug. 25, 1828 |
| Fowler, Charles | Pennsylvania | Bridges | Feb. 24, 1797 |
| Finley, James | Fayette co., Pa. | Do | June 17, 1808 |
| Forrester, Lot | Ridgefield, Ct. | Canals, machine for excavating | May 10, 1826 |
| Flemming, Peter | Albany, N. Y. | Carriage, cylindrical railway | May 4, 1829 |
| Finlay, Hugh | Baltimore, Md. | Do rail road | Oct. 27, 1829 |
| Fairlamb, Jonas P. | Wilmington, Del. | Locks, saving water in canal | Nov. 27, 1823 |
| Guilford, Simeon | Lebanon, Pa. | Canal locks, preserving | July 10, 1826 |
| Gray, Ed. | Boston, Mass. | Railway | Mar. 5, 1825 |
| Gardiner, John | Washington, D. C. | Roads, roller or wheel, and carriages for the same | Mar. 16, 1829 |
| Gilbert, Ephraim | Rochester, N. Y. | Boring rocks | July 22, 1823 |
| Grout, John, jr. | Massachusetts | Telegraph | Oct. 24, 1800 |
| Gray, Salmon | St. Lawrence co., N. Y. | Trees, machine for tearing up | July 15, 1818 |
| Haines, John | Richmond, Va. | Canals, machine for digging | Nov. 10, 1821 |
| Hendricks, George | Urbana, O. | Do do excavating | Aug. 5, 1829 |
| Howard, William | Baltimore, Md. | Railway carriage | Nov. 22, 1828 |
| Hallack, Henry | New York | Cellars, vaults, &c. | Oct. 24, 1826 |
| Hedl, Paulus | Do | Fencing, iron | Dec. 18, 1828 |

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|---|---|---|---|
| Howard, William | Baltimore, Md. | Locomotive engine | Dec. 10, 1828 |
| Hilyard, Eb. | Philadelphia | Wells, sinking | Sept. 10, 1817 |
| Jessup, Jona. | Yorktown, Pa. | Bridges, balance | July 1, 1811 |
| Ives, John B. | Lebanon, Va. | Cartridges for blasting rocks, &c. | July 17, 1826 |
| Jones, Elihu, and P. White | Brookfield, Mass. | Machine for drilling rocks | Dec. 21, 1809 |
| 30 Knight, Isaac | Baltimore, Md. | Railway carriage | Mar. 18, 1829 |
| Do | Do | Rail roads and carriages | June 11, 1829 |
| Kinyon, Benoni | Hillsdale, N. Y. | Rocks, blasting | Mar. 15, 1819 |
| Lewis, Marshall | Chenango, N. Y. | Bridges for canals, wooden aqueduct | April 12, 1820 |
| Ludlow, Ezra | New York | Cellars, vaults, &c. | Dec. 14, 1824 |
| Lazell, Isaac | Massachusetts | Machine for removing rocks | May 18, 1798 |
| Morgan, Richard P. | Stockbridge, Mass. | Railway carriage | July 27, 1827 |
| Morrison, John H. | Boscawen, N. H. | Carts for levelling hills, chain and railway | Sept. 28, 1813 |
| Martin, William | Windham, Ct. | Gate mortise, water lock | Jan. 15, 1820 |
| Osborn, Noah | Fairfield, Ct. | Carts, wagons, &c., machine for loading | May 23, 1826 |
| Oxley, Thomas | Norfolk, Va. | Land, machine for clearing | April 18, 1821 |
| Olcott, Sands | Harsimus, N. J. | Locomotive carriage for inclined planes, &c. | Sept. 11, 1829 |
| Overall, Israel | Liberty, Ten. | Rocks, boring | Mar. 14, 1828 |
| Owings, John | Baltimore, Md. | Wagon for removing earth | Aug. 27, 1824 |
| Peale, Charles W. | Pennsylvania | Bridges | Jan. 21, 1797 |
| Palmer, Timothy | Massachusetts | Do | Dec. 17, 1797 |
| Pope, Thomas | New York | Do | April 18, 1807 |
| Price, Jer. | Lockport, N. Y. | Carts for removing earth | May 18, 1827 |
| Platt, Joseph | Albany, N. Y. | Earth, raising and removing | May 4, 1805 |
| Phelps, Oliver, | Lansing, N. Y. | Earth from canals, hauling | July 16, 1827 |
| Pitkins, Edward | E. Hartford, Ct. | Fencing, repairing | Dec. 13, 1828 |
| Pinkus, Hy. and T. R. Williams | London, England | Rail roads, forest | April 27, 1826 |
| Price, Jer. | New York | Railways, endless portable | Sept. 15, 1826 |
| Pierce, Thomas | Hartwich, N. Y. | Scraper or excavating shovel | March 3, 1825 |

LIST OF PATENTEES—LAND WORKS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Pratt, Abijah | Jackson, N. Y. | Stumps, machine for raising | Aug. 17, 1827 |
| Pearson, Daniel | Boston, Mass. | Telegraph, domestic | Mar. 2, 1822 |
| Pierce, David | Poughkeepsie, N. Y. | Machine for sawing trees, called the portable horse sawing machine | April 3, 1829 |
| Reekers, John J. | Baltimore, Md. | Carriage, rail road | Dec. 11, 1829 |
| Reading, Pierson | Trenton, N. J. | Earth, machine for removing | June 1, 1826 |
| Richmond, James | Hudson, N. Y. | Excavating plough | Dec. 28, 1817 |
| Rogers, Daniel | Little Falls, N. Y. | Gate, paddle for canal lock | Mar 17, 1826 |
| Do | Do | Gate for locks of canals | Jan. 4, 1828 |
| Robinson, M. | Henrico co., Va. | Plane for transporting carriages, inclined | April 9, 1828 |
| Reekers, John J. | Baltimore, Md. | Transporting and conveyance machine | July 21, 1828 |
| Ruffner, Tobias | Kenawha, Va. | Wells, sinking | Dec. 22, 1818 |
| Stickney, John | Massachusetts | Bridges | June 3, 1797 |
| Skinner, Ichabod L. | Hartford, Ct. | Canals, machine for excavating | May 3, 1820 |
| Sullivan, John L. | Philadelphia, Pa. | Carriage, rail road | April 6, 1829 |
| Skinner, Ichabod L., & Samuel F. Tooker | Hartford, Ct. | Earth, machine for removing | Mar. 23, 1820 |
| Summers, William M. | New York | Mark, cast iron mile | Jan. 13, 1825 |
| Stone, John | Concord, Mass. | Pile driving for bridges | Mar. 10, 1791 |
| Stevens, John | Hoboken, N. J. | Rail roads, constructing | June 8, 1824 |
| Do | Do | Do do | Oct. 23, 1824 |
| Sargeant, Henry | Boston, Mass. | Do single | May 6, 1825 |
| Sanford, John | Sharon, Ct. | Machine for boring rocks | Dec. 10, 1813 |
| Syme, John M. | - | Blowing rocks | Dec. 12, 1816 |
| Stone, David | Clermont, N. H. | Stumps, machine for raising | July 27, 1809 |

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|---|---|---|---|
| Staples, John, jr. | New York | Submarine passage | Mar. 18, 1801 |
| Shultz, William | Baltimore, Md. | Telegraph | June 14, 1809 |
| Templeman, John | Allegany co., Md. | Bridges, improvement on Finley's chain | Aug. 16, 1808 |
| Do | Georgetown, D. C. | Do | March 6, 1810 |
| Tabb, George | Martinsburg, Va. | Do frame | Feb. 23, 1816 |
| Town, Ithiel | Fayetteville, N. C. | Do | Jan. 28, 1820 |
| Tanner, Arb'd. | Warren, Pa. | Plane for canals, double inclined | April 15, 1825 |
| Teal, Oliver | Salina, N. Y. | Scraper, metallic | Dec. 8, 1829 |
| Tucker, John | New York | Streets, roads, &c., cleaning | Nov. 10, 1819 |
| Van Dorn, Jacob | Glenn, N. Y. | Gate for canals, safety | May 14, 1827 |
| Wernwag, Lewis | Pennsylvania | Bridges | Mar. 28, 1812 |
| Woodmansee, Wm. | Kingston, N. Y. | Do | Mar. 6, 1827 |
| Wernwag, Lewis | Jefferson co., Pa. | Do | Dec. 22, 1829 |
| Wilkinson, Garner | White Creek, N. Y. | Do with draws | May 5, 1827 |
| Williams, Charles | Richmond, Va. | Carriage railway | Jan. 18, 1820 |
| Winans, Ross | Vernon, N. J. | Do do | Oct. 11, 1828 |
| Wright, James | Columbia, Pa. | Self adapting railway | Sept. 10, 1829 |
| Welsh, Jacob | Boston, Mass. | Earth, machine for removing | May 6, 1805 |
| Weems, Richard | Maryland | Fencing | Mar. 16, 1801 |
| White, Josiah | Philadelphia, Pa. | Locks for canals | Oct. 19, 1819 |
| Wright, James | Columbia, Pa. | Rail roads and cars | April 17, 1829 |
| Do | Do | Do for carriages to turn out and in | June 11, 1829 |
| Williams, Charles | Boston, Mass. | Railways | Nov. 16, 1821 |
| Whiting, Nathan | Chester, Vt. | Scraper or shovel | Mar. 19, 1819 |
| Whitney, Abieza H. | Bowdoinham, Me. | Stumps, machine for raising | Mar. 15, 1826 |

## LIST OF PATENTS—COMMON TRADES.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Bark, machine for cutting - - - - | Jona. Kilborn - | Connecticut - - | Aug. 23, 1800 |
| Bark, machine for cutting, softening hides, fulling cloth, and a grist mill - - - - - | Chester Griswold and Hosea E. Potter - | Otsego, N. Y. - | Nov. 20, 1810 |
| Barrels, kegs, &c., machinery for making - - | N. Goodall and N. Tainter - - | Watertown, N. Y. - | June 9, 1828 |
| Do casks, &c. - - - - - | Jno. Hale - - | Oakum, Mass. - | June 21, 1828 |
| Bedstead, improvement in the - - - - | Ludwig C. Kuhn - | Philadelphia, Pa. - | Aug. 10, 1791 |
| Do do do - - - - | Ward Gilman & Wm. Jackson - - | Portsmouth, N. H. - | Mar. 19, 1804 |
| Do do do easy draft - - | Peter T. Walcott - | Monmouth co., N. J. | Jan. 6, 1812 |
| Do do do - - - - | Jno. R. Cox - - | Philadelphia, Pa. - | Oct. 16, 1812 |
| Do do do metallic portable - | Jos. Homer - - | New York - - | Jan. 28, 1818 |
| Do do do - - - - | Daniel Powles - | Baltimore, Md. - | Oct. 31, 1821 |
| Do do do - - - - | Peregrine Williamson | Do - | Dec. 6, 1821 |
| Do do do - - - - | Do - | Do - | Oct. 17, 1822 |
| Do do do windlass - - | Leonard Foster - | Boston, Mass. - | Feb. 16, 1824 |
| Do do do - - - - | Do - | Do - | June 25, 1824 |
| Do do do - - - - | O. R. Herbert - | Mount Pleasant, N.J. | July 14, 1824 |
| Do do do - - - - | Isaac Cooper - | Baltimore, Md. - | Feb. 22, 1825 |
| Do do do windlass - - | Charles Adams - | Boston, Mass. - | Feb. 26, 1825 |
| Do do do and bed for the sick and lame - - - | Jer. Bailey - - | Philadelphia, Pa. - | Mar. 18, 1825 |
| Do do do draw key - - | Jno. McClintic - | Chambersburg, Pa. - | Nov. 2, 1825 |
| Do do do double tenon draw key - | Samuel Cooper - | Do - | Nov. 5, 1825. |

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|---|---|---|---|---|---|---|
| Do | do | do | bevelled, grooved, and dovetail joint - - | Jno. Mitchell - | Harrisburg, Pa. - | Jan. 11, 1826 |
| Do | do | do | bisected - - | Peter Breasted - | Green county, N. Y. | Feb. 21, 1826 |
| Do | do | do | fastenings - - | Edwin H. Badger - | Petersburg, Va. - | April 3, 1826 |
| Do | do | do | - - - - | William Bell - | Lexington, Ky. - | Nov. 7, 1826 |
| Do | do | do | - - - - | Samuel Davis - | Catskill, N. Y. - | Dec. 29, 1826 |
| Do | do | do | sacking bottoms, &c. - | Daniel Powles - | Baltimore, Md. - | Jan. 26, 1827 |
| Do | do | do | portable - - | Jacob Daley - | Do - | May 14, 1827 |
| Do | do | do | - - - - | Silas Hyde - - | Arcadia, N. Y. - | May 2, 1828 |
| Do | do | do | - - - - | Harvey Wilbur - | Newburyport, Mass. | June 16, 1828 |
| Do | do | do | fastenings - - | Wm. Swift and Wm. Ottiwell - - | New Bedford, Mass. | Oct. 11, 1828 |
| Do | do | do | revolving rail and round tenon - - - | Garret Post - - | Auburn, N. Y. - | Oct. 11, 1828 |
| Do | do | do | right and left screw - | John Copan - - | New York - - | June 11, 1829 |
| Do | do | do | - - - - | E. Rogers and M. Pearson - - | Essex county, Mass. | June 11, 1829 |
| Beds, improvement in the mode of warming - - | | | | Peter Lannay - | Baltimore, Md. - | Nov. 11, 1823 |
| Bed bugs, improvement in the mode of destroying - | | | | Richard Sealey - | New York - - | June 20, 1823 |
| Bed bugs, improvement in the mode of preventing their ascent up bed posts, called "Night Angels" - - | | | | James A. Clarke - | Georgetown, D. C. - | June 13, 1829 |
| Beef, smoked, machine for cutting - - - | | | | Seth R. Kneeland - | - - - | Oct. 9, 1810 |
| Do cutter - - - - - - | | | | Benjamin Meeker - | Brooklyn, N. Y. - | Oct. 21, 1815 |
| Bellows, improvement in the - - - - | | | | James Rumsey - | Berkeley county, Va. | Aug. 26, 1791 |
| Do | do | do | - - - - | James Drake - | New Jersey - - | May 19, 1794 |
| Do | do | do | furnace - - - | Jno. W. Godfrey - | Pennsylvania - | May 25, 1803 |
| Do | do | do | pump for furnaces - | Isaiah Jennings - | New York - - | Sept. 20, 1808 |
| Do | do | do | for forges - - | Henry Dotterer - | Philadelphia, Pa. - | Feb. 16, 1809 |
| Do | do | do | elastic piston - - | Do - | Do - | May 1, 1810 |
| Do | do | do | - - - - | Charles McMurtry - | New Marlboro', Mass. | July 8, 1811 |
| Do | do | do | wooden - - - | Benj. and Jno. Tyler | Claremont, N. H. - | Feb. 1, 1817 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Bellows, improvement in the, japanned - - | R. B. Richardson - | Philadelphia, Pa. - | Aug. 22, 1817 |
| Do do do Smith's - - - | Alonson Holmes - | Pomfret, N. Y. - | Mar. 28, 1818 |
| Do do do nosle, preventing burning | James Dodge, jr. - | St. Alban's, Vt. - | Jan. 24, 1824 |
| Do do do furnace - - - | Henry Dotterer - | Philadelphia, Pa. - | April 14, 1825 |
| Do do do - - - - | Josiah J. Eddy - | Providence, R. I. - | Sept. 9, 1825 |
| Do do do - - - - | Jesse Dixon - - | Pittsborough, N. C. - | June 11, 1827 |
| Do do do - - - - | Elijah Brady - | Mount Pleasant, N.Y. | April 3, 1828 |
| Do do do triangular for founderies | Wm. S. Jacks - | New York - - | April 4, 1829 |
| Do do do tub - - - | Aw. A. McPharin - | Huntingdon, Pa. - | June 11, 1829 |
| Bench, improvement in the, tailors' - - - | Wm. Burtis - - | New Brunswick, N.J. | Oct. 3, 1808 |
| Do do do shoemakers' mechanical - | Joel Soper - - | Windsor, Ct. - | Aug. 12, 1815 |
| Do do do - - - - | Baruck Way - | Ontario county, N.Y. | June 7, 1817 |
| Do do do - - - - | Jno. Greenholt - | Westminster, Md. - | June 9, 1818 |
| Biscuit, improvement in the machine for making - | Wm. Liddle - | New Orleans - | Sept. 21, 1815 |
| Book binding, improvement in - - - - | Jno. T. Sutherland - | Philadelphia, Pa. - | July 27, 1812 |
| Do do extra moveable case for - | Robert DeSilver - | Do - | Sept. 14, 1812 |
| Do do - - - - | Jno. Meer - - | Do - | Aug. 26, 1818 |
| Do do - - - - | Jesse Torrey - | Germantown, Pa. - | Aug. 8, 1829 |
| Boots, improvement in manufacturing - - - | Peter Gordon - | Philadelphia, Pa. - | Aug. 10, 1791 |
| Boots and shoes, do do - - - | Dean Howard - | Massachusetts - | April 10, 1800 |
| Do do do do - - - | Jno. Bedford - | Philadelphia, Pa. - | July 16, 1806 |
| Do do do do metallic bottoms | Samuel Millikin - | Lexington, Mass. - | Feb. 10, 1807 |
| Do do do do - - - | Wm. Montgomery - | Philadelphia, Pa. - | Feb. 11, 1807 |
| Do do do do lasts - - | Wm. Young - | Do - | May 20, 1807 |
| Do do do do - - - | Eli Barnum - - | Massachusetts - | Jan. 9, 1808 |

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|---|---|---|---|
| Do do do do - - - | Samuel Chamberlain - | Boston, Mass. - | Nov. 21, 1808 |
| Do do do crimping Suwarrow | Eleazer Lundy - | New York - - | Aug. 14, 1810 |
| Do do cutting Cossack - - | Jno. Morgan - | Philadelphia, Pa. - | April 10, 1811 |
| Do do crimping Suwarrow - - | Jer. Sibley - - | New York - - | April 25, 1811 |
| Do do do manufacturing - - - | Samuel B. Hitchcock and John Bement - | Homer, N. Y. - | July 30, 1811 |
| Do do cutting the legs - - | Jno. Vernon - | Baltimore, Md. - | Oct. 21, 1811 |
| Do do cramping - - - | Nathaniel L. Moore - | Smithfield, N. Y. - | Feb. 4, 1812 |
| Do do do manufacturing - - - | Elijah Thayer - | Leicester, Mass. - | Mar. 14, 1812 |
| Do do do manufacturing with wooden pegs, screws, &c. - - - | Robert U. Richards - | Norfolk, Ct. - | May 23, 1812 |
| Do do do manufacturing elastic hair soles | Wm. Francis - | Boston, Mass. - | June 23, 1812 |
| Do do do do mathematical - | Wm. G. Crease and J. Morgan - | Philadelphia, Pa. - | July 20, 1812 |
| Do do do do iron bound - | Ephraim Twombly - | Norway, Mass. - | Aug. 28, 1812 |
| Do do do cutting and forming - - | Joshua Hall - - | Fredericktown, Md. - | Dec. 15, 1815 |
| Do do do manufacturing furred - - | Samuel Eells - | Connecticut - - | Feb. 24, 1816 |
| Do do do do elastic - - | Pierre Azam - | Baltimore, Md. - | Sept. 24, 1816 |
| Boot cleaner, cylindrical - - - - | Israel Pinkney - | New York - - | April 16, 1817 |
| Do and shoe lasts, right and left - - - | Wm. Young - | Baltimore, Md. - | June 10, 1817 |
| Do do nailing on the soles - - - | Jno. Bedford - | Philadelphia, Pa. - | June 2, 1818 |
| Do do cutting by rule - - - - | Simeon Hart - | Monkton, Vt. - | Mar. 3, 1821 |
| Do do manufacturing - - - - | Daniel Peck - | New York - - | Aug. 14, 1821 |
| Do do do water proof - - | Aaron Dana - | Boston, Mass. - | Dec. 31, 1821 |
| Do do do do - - | Arnold Buffum - | Smithfield, R. I. - | Dec. 28, 1822 |
| Do do do - - - - | Eben. Martin - | Salem, N. J. - | Jan. 12, 1824 |
| Do do crimping - - - - | Eben. G. Pomeroy - | Lancaster, O. - | July 27, 1824 |
| Do lasting - - - - - - | Jno. Eells, jr. - | Unadilla, N. Y. - | Mar. 25, 1825 |
| Do and shoes, water proof - - - - | Patrick G. Nagle - | Philadelphia, Pa. - | Dec. 14, 1825 |
| Do do manufacturing - - - - | Jno. Trask - - | Hadfield, Mass. - | April 5, 1826 |
| Do do do - - - - | Elijah Thayer - | Leicester, Mass. - | June 9, 1826 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Boot tree, screw | Geo. Nicol | Madison, Va. | Sep. 8, 1826 |
| Do crimping machine | Saml. Moorehouse | Eastport, Me. | June 19, 1827 |
| Do and shoe, mode of holding | Samuel Nourse | Danvers, Mass. | Dec. 8, 1827 |
| Do trees | Hy. B. Miller | Mayville, N. Y. | Aug. 25, 1828 |
| Do do | Joshua Ayars | Brookfield, N. Y. | Nov. 27, 1828 |
| Do crimping machine | Tyler Howe | Worcester, Mass. | June 11, 1829 |
| Do and shoe cutting | Samuel Marshall | Philadelphia, Pa. | June 23, 1829 |
| Boots and shoes, perpetual polished water proof | J. Rynex, J. Haskins, & Samuel Knower | Boston, Mass. | Sept. 23, 1829 |
| Do manufacturing | Alden Burdick | Carroll, N. Y. | Oct. 31, 1829 |
| Boring pumps | Caleb Leach | Massachusetts | April 13, 1797 |
| Do machine, perpendicular | Roger Selden | - - - | July 7, 1806 |
| Do do for ship carpenters | Benjamin Hall | Canaan, N. Y. | Mar. 8, 1810 |
| Do do mitre point | Do | Do | Mar. 8, 1810 |
| Do do | John Webster | Gr. Barrington, Mass. | May 1, 1810 |
| Do do | Nathaniel Gillett and John Smith | Cazenovia, N. Y. | April 8, 1812 |
| Do do for hubs and felloes | David Sperry | Colchester, Ct. | May 12, 1812 |
| Do do and mortising | Job. Wilkinson | Pennfield, N. Y. | May 28, 1825 |
| Do do and tenoning | Admiral Warren | Sangerties, N. Y. | April 17, 1826 |
| Do do and reaming out and setting boxes into hubs | Eben. Johnson | Lex'ton Heights, N.Y. | Nov. 7, 1826 |
| Do do and tenoning | David Sperry | Colchester, Ct. | April 18, 1827 |
| Do do for pump logs | Samuel Draper | Camillus, N. Y. | Mar. 31, 1828 |

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|---|---|---|---|
| Boxes, making, by machinery for sugar | Paul Pearson & John Howe | Alna, Me. | April 15, 1828 |
| Bread, mode of making | William Banks | Connecticut | Dec. 14, 1798 |
| Do do ship, &c. | Jehosaphat Starr | Middletown, Ct. | Jan. 8, 1813 |
| Do do | George Richards | Manlius, N. Y. | Feb. 8, 1813 |
| Do finisher | Ephm. Treadwell | Philadelphia, Pa. | Jan. 10, 1820 |
| Do biscuit, &c., machine | Do | New York | May 18, 1826 |
| Brick making | David Ridgway | Philadelphia, Pa. | Mar. 7, 1792 |
| Do do | Chris. Colles | New York | Jan. 26, 1793 |
| Do do and pan tile | Samuel Bronwer | Massachusetts | Aug. 17, 1793 |
| Do do | Apollos Kinsley | New York | Feb. 1, 1793 |
| Do machine for tempering mortar for | Do | Do | Dec. 20, 1793 |
| Do and tile machine | John Hawkins | New Jersey | July 11, 1797 |
| Do do | George Hadfield | Washington, D. C. | May 15, 1800 |
| Do machine | Richard Mansfield | Connecticut | Oct. 28, 1800 |
| Do do | Ezra Miller | New York | July 17, 1802 |
| Do do and tile | Nathaniel Miller and Phil. W. Miller | Massachusetts | Jan. 5, 1804 |
| Do do | John F. Gould | - | Mar. 1, 1806 |
| Do fire, machine | Eben. Jenks | Canaan, Ct. | April 18, 1807 |
| Do machine | Asa Ross | Cazenovia, N. Y. | Sept. 21, 1808 |
| Do do and tile | John F. Gould | Newburyport, Mass. | Oct. 17, 1809 |
| Do do or artificial stone without burning | James B. Harris | Philadelphia, Pa. | Aug. 21, 1810 |
| Do do and tile | Daniel French | New York | Aug. 22, 1810 |
| Do do | James Gregg | New Hampshire | May 7, 1811 |
| Do do | James McDonald | New York | April 1, 1812 |
| Do and mortar, alternate lift | Benj. Dearborn | Boston, Mass. | June 20, 1816 |
| Do making | William Mitchell | Henrico, Va. | June 24, 1816 |
| Do air conducting for stoves | Eph'm Treadwell | Essex co., Mass. | Sept. 12, 1816 |
| Do making, and clay grinding | William Mitchell | Richmond, Va. | Mar. 26, 1817 |
| Do do | Do | Spring Hill, Va. | May 28, 1817 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Brick making | Adam Stewart | Baltimore, Md. | April 8, 1819 |
| Do do | Seth Belknap | Newbury, N. Y. | May 17, 1821 |
| Do and tile machine | J. E. Stubbs and J. Bonner | Cincinnati, O. | May 10, 1822 |
| Do moulding machine | Honore Mane | Point Coupee, La. | Nov. 23, 1822 |
| Do treading | Briggs R. Reed | Danvers, Mass. | May 29, 1823 |
| Do fire proof | Tim. Caldwell | Philadelphia, Pa. | July 21, 1823 |
| Do machine | John Menefee | Landry parish, La. | Aug. 7, 1823 |
| Do do | Seth Lewis | Louisiana | Feb. 11, 1824 |
| Do do | James Lee | Ogden, N. Y. | Mar. 11, 1824 |
| Do do | Jas. Lee and J. Ring | Ogden, N. Y. | June 11, 1825 |
| Do do improvement on Lee's | Tim. P. Kneeland | Do | June 21, 1825 |
| Do fire | Richard W. Smith | Baltimore, Md. | Sept. 27, 1825 |
| Do moulding machine | David Watson | Fayetteville, Me. | May 6, 1826 |
| Do do | Ezra Fisk | Fayette, Me. | June 9, 1826 |
| Do frame, portable, for raising | E. Mann & G. Hill | Rochester, N. Y. | July 21, 1827 |
| Do and tile machine | E. Fisk & B Hinkley | Fayette, Me. | Sept. 8, 1827 |
| Do mixing earth for | Benj. K. Hill | Richmond co., Geo. | Feb. 17, 1827 |
| Do machine | David Rising | Atchester, Vt. | Mar. 21, 1827 |
| Do do | Do | Colchester, N. Y. | Jan. 29, 1828 |
| Do do | David Flagg | Gardiner, Me. | Mar. 19, 1828 |
| Do do | Eben. Duty and D. W. Duty | Painesville, O. | June 7, 1828 |
| Do do improvement on McDonald's | James McDonald and Rob. McQueen, jr. | New York | Nov. 19, 1828 |

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|---|---|---|---|
| Do and tile machine | James Wood | Rockland co., N. Y. | March 3, 1829 |
| Do machine | John S. Hanna | Mercer, Pa. | Nov. 23, 1829 |
| Bridles, improvement in | Rob. Smether | Orange co., Va. | Dec. 10, 1812 |
| Do do | Peter Laporte | Richmond, Va. | Aug. 15, 1822 |
| Do do | Daniel H. Read | New York | Oct. 24, 1826 |
| Bruising, beating, and cutting substances | Adam Britz | Philadelphia, Pa. | July 18, 1816 |
| Buckle, mechanical spring | John Green | New York | May 20, 1807 |
| Do cutting and finishing for harness | James Carman | Hudson, N. Y. | Oct. 12, 1814 |
| Bulding houses to secure them from fire | Jos. Hadley | Morristown, Vt. | Feb. 3, 1819 |
| Do for a school room | S. W. Taylor and J. W. Martin | Lowville, N. Y. | April 16, 1825 |
| Do covering | Hazard Knowles | Colchester, Ct. | Oct. 10, 1828 |
| Bureau dressing table | Nathaniel Perry | Boston, Mass. | Oct. 13, 1809 |
| Bungs, machine for cutting | Alex. Donaldson | Salem, Mass. | Jan. 15, 1818 |
| Butter, machine for making | B. G. Burtis and Gershom Burtis | New York | Feb. 27, 1807 |
| Do do from lard | Zina Phinney | Greene co., N. Y. | March 4, 1814 |
| Do do | Isaac Shepherd | Merideth, N. Y. | May 28, 1818 |
| Do machine for working and cutting curds | William Buck | Chatham, Ct. | Dec. 5, 1825 |
| Carpentering, art of | Jer. Bailey | Philadelphia, Pa. | April 7, 1827 |
| Casks, machine for making | Joseph Little | Hillsborough, N. H. | July 25, 1818 |
| Do do | Uri Emmons | Greene co., N. Y. | Jan. 8, 1823 |
| Do do barrels, hogsheads, &c. | Wm. & Mar. Adams | Ogden, N. Y. | Jan. 24, 1828 |
| Do application of steam to making | Jonah Thompson | Philadelphia, Pa. | Dec. 30, 1829 |
| Churn, improvement in the | Isaac Baker | Massachusetts | Feb. 20, 1802 |
| Do do do | Joel Pierce | New York | April 10, 1802 |
| Do do do rocking | Walter Keeler and J. Waring | Connecticut | June 23, 1803 |
| Do do do top | Levi Stephens | Do | May 8, 1804 |
| Do do do | Abner Wing | Washington, N. Y. | May 26, 1806 |
| Do do do | Reuben Buck | Baltimore, Md. | June 23, 1807 |

## LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Churn, improvement in the - - - - | Buel Cutter - - | Washington, N. Y. - | Oct. 3, 1807 |
| Do do do - - - - | John Scripture - | Alford, Mass. - | Dec. 15, 1807 |
| Do do do - - - - | Simeon Hays - | Poultney, N. Y. - | Mar. 8, 1808 |
| Do do do revolving - - - | Nicholas King - | Washington, D. C. - | Mar. 10, 1808 |
| Do do do - - - - | Stephen Stackhouse - | Cazenovia, N. Y. - | Mar. 11, 1808 |
| Do do do - - - - | Wm. W. Townsend - | Sandy Hill, N. Y. - | Mar. 22, 1808 |
| Do do do - - - - | Daniel Pierpont - | New Haven, Ct. - | April 22, 1808 |
| Do do do - - - - | Aaron Reed - | Columbia co., N. Y. | April 25, 1808 |
| Do do do - - - - | Nehemiah Howe - | Windham, Ct. - | April 25, 1808 |
| Do do do - - - - | Simeon B. Willard - | Bloomfield, N. Y. - | May 18, 1808 |
| Do do do - - - - | Dyer Cleaveland - | Sheffield, Mass. - | July 7, 1808 |
| Do do do - - - - | Do - - | Do - - | July 11, 1808 |
| Do do do - - - - | Erastus Townsend - | Canaan, N. Y. - | July 12, 1808 |
| Do do do - - - - | John Bolton - | Philadelphia, Pa. - | Aug. 2, 1808 |
| Do do do rocking - - - | Daniel Parmelee - | Dutchess co., N. Y. - | Sept. 8, 1808 |
| Do do do - - - - | Samuel Moon, jr. - | Downingtown, Pa. - | Oct. 24, 1808 |
| Do do do and washing machine - | John Devotie - | Vernon, N. Y. - | Dec. 5, 1808 |
| Do do do - - - - | Luther Jones - | Canton, Ct. - | Dec. 10, 1808 |
| Do do do - - - - | Ira Millington - | Warren, N. Y. - | Mar. 2, 1809 |
| Do do do - - - - | Ezra G. Jones - | Otsego, N. Y. - | April 21, 1809 |
| Do do do - - - - | Hez. Dickerman - | Gr. Barrington, Mass. | May 9, 1809 |
| Do do do - - - - | George Votee - | Berlin, Ct. - | May 10, 1809 |
| Do do do - - - - | John McCoord - | Washington, N. Y. - | June 13, 1809 |
| Do do do - - - - | Luther Thompson - | Sturbridge, Mass. - | June 24, 1809 |
| Do do do - - - - | Thomas Nicholson - | Nelson co., Ky. - | Aug. 10, 1809 |

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|---|---|---|---|---|---|---|---|---|---|
| Do | do | do | - | - | - | - | Benjamin U. Lapish | Durham, N. H. - | Aug. 15, 1809 |
| Do | do | do | - | - | - | - | Nathaniel Harrington | Whitestown, N. Y. - | Oct. 11, 1809 |
| Do | do | do | - | - | - | - | Benjamin Atwell and Israel Nichols - | Otsego co., N. Y. - | Oct. 14, 1809 |
| Do | do | do | - | - | - | - | Enoch Burt - | Princeton, N. J. - | Nov. 20, 1809 |
| Do | do | do | - | - | - | - | John Wetmore - | Litchfield, Ct. - | Dec. 8, 1809 |
| Do | do | do | - | - | - | - | David Osborn - | Berkshire co., Mass. | Jan. 8, 1810 |
| Do | do | do | - | - | - | - | Benjamin Fairbanks - | Worcester, Mass. - | Mar. 5, 1810 |
| Do | do | do | - | - | - | - | Aaron Smith - | Tyngsborough, Mass. | April 11, 1810 |
| Do | do | do | - | - | - | - | Ephraim Bacon - | Hancock co., Mass. - | July 26, 1810 |
| Do | do | do | - | - | - | - | Simeon Gray - | Genesee, N. Y. - | Aug. 17, 1810 |
| Do | do | do | - | - | | - | Jos. Beach - - | Northfield, Mass. - | Jan. 24, 1811 |
| Do | do | do | - | - | - | - | Lewis Cleveland - | Holliston, Mass. - | Feb. 7, 1811 |
| Do | do | do | - | - | - | - | Harry Mumford - | Ulster co., N. Y. - | Mar. 28, 1811 |
| Do | do | do | - | - | - | - | Daniel Robinson - | Franklin, N. Y. - | May 3, 1811 |
| Do | do | do | horizontal vibrating | | | - | Thomas Pratt - | Cheshire, N. H. - | Sept. 12, 1811 |
| Do | do | do | - | - | - | - | Jos. H. Shepard - | Canaan, Mass. - | Oct. 1, 1811 |
| Do | do | do | - | - | - | - | Adam Sheble - | Philadelphia, Pa. - | Nov. 27, 1811 |
| Do | do | do | horizontal | - | - | - | John Davidson - | Cheshire, N. H. - | April 3, 1812 |
| Do | do | do | pendulum | - | - | - | Cyrus Hitchcock - | Vernon, N. Y. - | Aug. 7, 1813 |
| Do | do | do | - | - | - | - | William Pumphrey - | Ohio - - | Jan. 5, 1814 |
| Do | do | do | - | - | - | - | Joshua Lane - | Homer, N. Y. - | May 15, 1815 |
| Do | do | do | - | - | - | - | Alvan Cornell & Hiram K. Cornell - | Cambridge, N. Y. - | Jan. 15, 1816 |
| Do | do | do | - | - | - | - | John Erving - | Boston, Mass. - | April 30, 1816 |
| Do | do | do | - | - | - | - | Artemas Bills - | Baltimore, Md. - | July 29, 1816 |
| Do | do | do | - | - | - | - | Benjamin Webb - | Toland, Ct. - | Aug. 22, 1816 |
| Do | do | do | - | - | - | - | Abel Broadway - | Monson, Mass. - | Nov. 25, 1816 |
| Do | do | do | - | - | - | - | Nathan Porter - | Suffield, Ct. - | April 7, 1818 |
| Do | do | do | - | - | - | - | Thomas T. Storm - | New York - - | May 28, 1818 |
| Do | do | do | - | - | - | - | Jos. Lloyd - | Orange co., N. Y. - | Mar. 2, 1819 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Churn, improvement in the - - - - | William L. Frazer - | Oxford, N. Y. - | Mar. 19, 1819 |
| Do do do - - - - | John Hale - | Hillsborough, N. H. | Dec. 15, 1819 |
| Do do do - - - - | Adam Swart - | Saratoga, N. Y. - | April 9, 1821 |
| Do do do inclined wheel applied with dogs - - - | G. F. Reeve and J. Ketcham - - | Orange co., N. Y. - | Aug. 10, 1821 |
| Do do do - - - - | Benjamin Hayden, jr. | Trenton, N. J. - | June 15, 1822 |
| Do do do - - - - | E. Brown & A. Keith | Winfield, N. Y. - | June 19, 1822 |
| Do do do - - - - | Samuel Clarke - | Morris co., N. Y. - | Oct. 4, 1822 |
| Do do do - - - - | Abiram Baird - | Schoharie co., N. Y. | Mar. 25, 1825 |
| Do do do - - - - | John P. Bortle - | Claverack, N. Y. - | April 19, 1825 |
| Do do do - - - - | Asa Humphrey - | Gray, Me. - - | May 9, 1825 |
| Do do do double dash - - | Ezra Waterhouse - | Gardiner, Me. - | Sept. 29, 1825 |
| Do do do rocking - - - | John G. Philip - | Kinderhook, N. Y. - | Feb. 15, 1827 |
| Do do do - - - - | Samuel L. Bagley - | Hillsdale, N. Y. - | Mar. 24, 1827 |
| Do do do - - - - | Levi Rosenkrans - | Urbana, N. Y. - | May 19, 1827 |
| Do do do - - - - | Nathan Whitney - | Augusta, Me. - | June 7, 1827 |
| Do do do - - - - | Daniel Sheldon - | Poultney, N. Y. - | Sept. 13, 1827 |
| Do do do - - - - | Samuel H. Baker - | Wells township, Pa. | Jan. 10, 1828 |
| Do do do - - - - | Edward Spain - | Mount Holley, N. J. | April 23, 1828 |
| Do do do and washing machine - | Daniel Read - | Slaterville, N. Y. - | June 16, 1828 |
| Do do do - - - - | Jos. Hathaway - | Canandaigua, N. Y. - | Aug. 22, 1828 |
| Do do do forcing valve piston - | Benjamin Cashwa - | Clear Spring, Md. - | Jan. 24, 1829 |
| Do do do - - - - | Zuri S. Doty - | Groton, N. Y. - | Mar. 17, 1829 |
| Do do do - - - - | Cotton Foss - - | Perry, Ohio - - | June 11, 1829 |

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|---|---|---|---|---|
| Do do do | Abner Murray | Athens, N. Y. | June | 27, 1829 |
| Do do do box | T. & L. Morrison | Groton, N. Y. | Oct. | 16, 1828 |
| Do do do | James C. Barrett | Collins, N. Y. | Oct. | 19, 1829 |
| Do do do | Horace Saxton | Paris, N. Y. | Nov. | 6, 1829 |
| Do do do | Hosea H. Grover | Auburn, N. Y. | Nov. | 30, 1829 |
| Do do do lever power | William Cook | South Port, N. Y. | Dec. | 7, 1829 |
| Do do do labor saving | Samuel J. O'Brien | New York | Dec. | 22, 1829 |
| Clamp for shoemakers | Thomas R. Hoyt | Goffstown, N. H. | Dec. | 6, 1817 |
| Clay, machine for cutting for tiles | Andrew W. Duty | South Carolina | May | 8, 1799 |
| Do do tempering | John Matthews | Baltimore, Md. | July | 6, 1809 |
| Do do grinding sand and | Alfred Cushman | Sumner, Me. | Mar. | 3, 1829 |
| Collars for dress coats | Henry Clark | Brooklyn, Ct. | Nov. | 7, 1828 |
| Coopering, improvement in the machine for | Oliver Barber | Hartford, Ct. | Jan. | 8, 1810 |
| Do do | Horace Wright | Onondaga, N. Y. | Oct. | 23, 1822 |
| Do do | Hiram Waters | Watertown, N. Y. | April | 3, 1828 |
| Do do | Nathaniel Rider | Sturbridge, Mass. | April | 1, 1829 |
| Corks, improvement in the machine for cutting | Luther Hills | Boston, Mass. | June | 18, 1827 |
| Do do do | George Rawlings | Philadelphia, Pa. | Oct. | 30, 1827 |
| Cornice, brick | Thomas K. Beale | Alexandria, D. C. | May | 28, 1814 |
| Corsets | Mary Brush | New York | July | 21, 1815 |
| Do | William J. Cantelo | Do | Dec. | 31, 1821 |
| Crackers, machine for cutting and rolling | Daniel Pool | Philadelphia, Pa. | Dec. | 24, 1824 |
| Cradle, improvement in the swing | Zach. Mills | Hartford, Ct. | July | 17, 1806 |
| Do do | Samuel Pope | Windsor, Ct. | June | 15, 1813 |
| Do do | Peter Cooper | Hempstead, N. Y. | Mar. | 27, 1815 |
| Do do rockers and chair | Samuel Simmons | Baltimore, Md. | Dec. | 21, 1819 |
| Do do self moving | Anth'y Buchenberger | New York | Nov. | 3, 1829 |
| Cushion, do elastic spring | Sherman Blair | New Haven, Ct. | Aug. | 1, 1823 |
| Cutting clothes | Allen Ward | Huntsville, Ala. | June | 16, 1821 |
| Do | Ethan Campbell | Philadelphia, Pa. | Nov. | 6, 1823 |
| Do machine called the variator | Levi P. Lemont | Bath, Me. | Jan. | 9, 1829 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Doors, locking | John Dillingham | Turner, Me. | June 2, 1825 |
| Do preventing the tightness of | Daniel Fraser | New York | Dec. 12, 1825 |
| Do constructing | Daniel Williams, jr. | Colchester, Ct. | Oct. 11, 1828 |
| Do fender for water and snow | William Cole & John Johnson | Randolph, Mass. | Mar. 27, 1829 |
| Do and window fastening | Stephen Hayward | Plainfield, Mass. | Oct. 17, 1829 |
| Do machine for closing | Lynus Burwell | Berlin, Ct. | Nov. 25, 1829 |
| Dough and paste breaking machine | Nathaniel Pettibone | New York | Nov. 16, 1797 |
| Do machine for breaking | Label Folger | Hingham, Mass. | Nov. 1, 1804 |
| Do do making | Geo. Richards | Stonington, Ct. | Feb. 14, 1806 |
| Do do breaking | Cromwell Barnard | Nantucket, Mass. | April 17, 1810 |
| Do do kneading | Samuel Nixon | Pr. George's co., Va. | Feb. 28, 1818 |
| Do do do | T. S. Fisher and S. W. Talbott | Dedham, Mass. | April 23, 1822 |
| Dowelling headings for coopers | Ralph Hunt | Ontario co., N. Y. | Dec. 11, 1820 |
| Do instrument | William Bowhay | Philadelphia, Pa. | Oct. 14, 1816 |
| Drawers for wearing | Henry Brewer | New York | Feb. 28, 1822 |
| Dresses for boys | Charles Herwick | Do | May 16, 1826 |
| Dye woods, machine for rasping, sawing, and grinding | John Mathews | Philadelphia, Pa. | Aug. 13, 1805 |
| Do do do do do | Do | Do | Feb. 6, 1807 |
| Do do do | Jesse Reed | Boston, Mass. | June 3, 1808 |
| Do do do do do | Ephm. Hubbal | Middlebury, Vt. | June 27, 1809 |
| Do do cutting | Jedediah Richards, 3d | Norfolk, Ct. | Aug. 13, 1810 |
| Do do rasping | Samuel Stone | Enosburg, Vt. | May 3, 1811 |
| Do do do | Joseph Broad | Springfield, Mass. | Mar. 1, 1814 |

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| Do do cutting - - - | Aaron Broad - | Litchfield, Ct. - | June 9, 1814 |
| Do do do - - - | Beriah Swift - | Washington, N. Y. - | Feb. 1, 1817 |
| Do do do - - - | Elijah Converse - | Dayton, Ohio - | Jan. 10, 1821 |
| Do do do - - - | H. Haight and H. White - - | Stamford, Ct. - | April 11, 1825 |
| Do do do - - - | Ephm. Morris - | Bloomfield, N. J. - | Sept. 27, 1825 |
| Do do do and tan bark, self feeding | Aaron Foster - | Rochester, N. Y. - | Dec. 9, 1828 |
| Elevator, for the use of the sick - - - | John Elliot - - | Newbury, Mass. - | Feb. 15, 1811 |
| Feather cleaning machine - - - - | Charles Toupet - | New York - - | Oct. 15, 1829 |
| Felloes, machine for sawing or cutting - - - | Samuel Church - | Amherst, Mass. - | May 4, 1805 |
| Do do do - - - | Wm. E. Sheffield - | New York - - | Dec. 21, 1809 |
| Do do cutting and dressing - - | Samuel Church - | Amherst, Mass. - | April 25, 1810 |
| Do do do - - - - | Joseph Goulding - | Leicester, Mass. - | Feb. 28, 1811 |
| Do do do - - - - | B. L. Greenough - | Lebanon, N. H. - | Dec. 22, 1824 |
| Do do sawing - - - - | Phoebe Collier, widow of James - - | Catskill, N. Y. - | May 20, 1826 |
| Do do do - - - - | Barnabas Ruggles - | Poultney, Vt. - | June 29, 1826 |
| Do do do - - - - | George Andrews - | Tolland, Ct. - | Oct. 24, 1828 |
| Do do do - - - - | Samuel Fahrney - | Washington co., Md. | Dec. 9, 1828 |
| Do bending by steam - - - - | Merritt Blakeslee - | Canaan, Ct. - | July 29, 1829 |
| Flies, machine for killing - - - - | Aw. Glendenning - | Loudon co., Va. - | Sept. 9, 1824 |
| Frame for finishing ladies, dresses - - - | James R Williams - | Baltimore, Md. - | Mar. 3, 1824 |
| Gauge and jointer machine - - - - | John Wadsworth - | Milton, Mass. - | Feb. 10, 1810 |
| Do for trip hammers when plating scythes - - | Benjn. Richardson - | Western, Mass. - | May 17, 1814 |
| Hammers, hanging forge, called the "clamboit" - | Jona McNeel - | Coleman town'p, Pa. | Jan. 21, 1829 |
| Hames coach and chaise - - - - | Herrick Aiken - | Brighton, Mass. - | Mar. 12, 1823 |
| Harness, carriage - - - - - | Benjamin Merick - | Rutland co., Vt. - | April 21, 1809 |
| Do do and saddlery - - - - | Benj'n. Foster, Danl Washburn, Northorp Rockwell, & James O. Walker - | Castleton, Vt. - | Aug. 16, 1810 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Harness trimmings and carriage ornaments - - | Wm. S. Robinson - | Taunton, Mass. - | Sept. 22, 1829 |
| Hides, splitting and shaving - - - - | Nathl. P. Whiting - | Providence, R. I. - | April 25, 1810 |
| Do breaking, hairing, &c. - - - | Nathaniel Kirk and Samuel C. Clarke - | St. Clairsville, Ohio - | July 18, 1812 |
| Do do do fleshing, &c. - - | T. E. Barker and S. S. Fordham - | Hudson, N. Y. - | Oct. 15, 1812 |
| Do machine for softening dry - - - | William Edwards - | Northampton, Mass. | Dec. 30, 1812 |
| Do do breaking - - - - | Wm. M. D. Hasbrouck and Jac. Diefenback | Bloomsbury, Pa. - | Feb. 8, 1819 |
| Hides, machine for softening and distending - - | Daniel Krauser - | Reading, Pa. - | Aug. 18, 1820 |
| Do do breaking - - - - | Hez. S. Clarke - | Randolph co., N. C. | Dec. 22, 1826 |
| Hoops, machine for shaving out of split timber - - | David Shriver - | Petersburg, Va - | Mar. 17, 1810 |
| Do do sawing - - - - | Phineas Slayton - | Lockport, N. Y. - | May 1, 1828 |
| Do do do improvement on Slayton's - | Nicholas Bratt - | Do - - | July 31, 1828 |
| Do do do laths, staves, &c. - - | Isaac Price, jr. - | Do - - | Aug. 19, 1828 |
| Horse collars - - - - - - - | Wm. Hottenstein - | Pennsylvania - | April 10, 1800 |
| Do shoes - - - - - - - | Stephen Decatur and William Tatham - | - - - | Oct. 11, 1809 |
| Do fetters - - - - - - - | Joseph Watson - | New Canaan, Ct. - | Jan. 15, 1818 |
| Do frame, swinging, for shoeing - - - | Joseph Kirk - | Weston, Vt. - | Nov. 8, 1820 |
| Do machine for stopping a - - - - | Peter Laporte - | Louisa co., Va. - | Mar. 20, 1821 |
| Do shoes - - - - - - - | John B. Brown and J. Farmer - | Boston, Mass. - | Mar. 11, 1822 |
| Do do and for oxen - - - - | Peter Sternberg - | Danube, N. Y. - | April 10, 1824 |
| Do blinds - - - - - - - | Seth Boyden - | Newark, N. J. - | April 10, 1824 |

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|---|---|---|---|
| Do shoes, cast iron, and oxen | Stephen W. Whitman | Madison, Ohio | Nov. 4, 1825 |
| Do do | Robert E. Horbart | Pottstown, Pa. | May 24, 1828 |
| Houses, covering with tin plate, sheet iron, &c. | Richard S. Tilden | Lynchburg, Va. | Sept. 10, 1829 |
| Inkstand, stone | Abm. H. Quincy | Boston, Mass. | Sept. 3, 1811 |
| Do | Anson Haywood | Easton, Mass. | Nov. 23, 1818 |
| Joint, carpenters' sliding (dove tail) | Geo. B. Raymond and Shadrack Trumbull | Suffield, Ct. | April 23, 1816 |
| Jointing and matching boards | David Gleason and H. Frisbee | Bethany, N. Y. | April 8, 1826 |
| Jointing boards | Elijah B. Clarke | Damascus, Pa. | Jan. 31, 1827 |
| Knife, currier's | Seth Parsons | Parsonfield, Mass. | Oct. 25, 1810 |
| Do do | Daniel Tomlinson | Brookfield, Ct. | July 6, 1820 |
| Do for splitting leather | Herrick Aiken | Brighton, Mass. | Mar. 12, 1823 |
| Do currier's, machine for sharpening | James Bachelder | Lancaster, N. H. | Nov. 9, 1824 |
| Do do | Do | Do | Nov. 3, 1825 |
| Do do | Freeman Palmer | Littleton, N. H. | Mar. 17, 1826 |
| Do do constructing and grinding | Samuel Brook | New York | Nov. 13, 1826 |
| Do or knives, a set of, for cutting sole leather | Luke Marble | Henrietta, N. Y. | Mar. 28, 1828 |
| Do currier's | Isaac H. Harrington | Albany, N. Y. | June 26, 1828 |
| Do sharpener and compound guard | Walter Hunt | New York | Feb. 19, 1829 |
| Do renovator | Isaiah Jennings | Do | Mar. 17, 1829 |
| Do sharpener | William J. Dunn | Do | Aug. 18, 1829 |
| Laths, machinery for manufacturing | A. P. Howell | Cincinnati, O. | Oct. 9, 1827 |
| Do do do and other lumber | Levi Rice | Lockport, N. Y. | July 23, 1828 |
| Do hoops, &c., machine for slitting | Benjamin K. Crandell | Do | Aug. 25, 1828 |
| Leather, pricking, for cards | Pliny Earle | Massachusetts | Dec. 6, 1803 |
| Do striping, alum dressed | Samuel Frothingham and George Harris | Middletown, Ct. | April 20, 1808 |
| Do currying and finishing | Samuel Parker | Billerica, Mass. | July 9, 1808 |
| Do shaving and splitting | Martin Fuller | Royalton, Vt. | July 29, 1808 |
| Do do do | Seth Boyden | Foxborough, Mass. | Jan. 7, 1809 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Leather, currying and finishing - - - | Samuel Parker - | - - - | April 26, 1809 |
| Do morocco, polishing and graining - - | Jac. Perkins - | Boston, Mass. - | June 26, 1809 |
| Do machine for striping - - - - | David Ridgeway - | - - - | Oct. 26, 1809 |
| Do process of, and machinery for stamping and staining - - - - - | Robert Robinson - | Newburyport, Mass. | Mar. 19, 1810 |
| Do pricking machine - - - - | Robert U. Richards & Mills Richards - | Norfolk, Ct. - | April 24, 1810 |
| Do splitting mill - - - - | Phineas Dow - | Boston, Mass. - | July 12, 1810 |
| Do do and shaving skins - - - | Philip White - | Worcester, Mass. - | Nov. 1, 1810 |
| Do shaving - - - - | Frederick Woodward | New Lisbon, N. Y. - | July 27, 1812 |
| Do do and splitting - - - | Samuel Parker - | Billerica, Mass. - | April 5, 1813 |
| Do uniting by metal or wooden pegs - - | Sidney B. Browne - | West Chester co., N.Y. | April 2, 1814 |
| Do elastic water proof - - - - | Peter Lannay - | Baltimore, Md. - | Dec. 4, 1816 |
| Do dying and polishing - - - - | Lemuel Hedge - | Windsor, Vt. - | July 22, 1819 |
| Do shaving - - - - - | J. P. Houston and O. Bachelder - | Bedford, N. H. - | April 11, 1825 |
| Do machine for facilitating the sewing of - | Henry Lye - | Philadelphia, Pa. - | Mar. 10, 1826 |
| Do do dying and polishing - - | Samuel Couillard - | Boston, Mass. - | June 27, 1827 |
| Do water proof - - - - - | David Kizer - | New York - - | Nov. 19, 1827 |
| Do and cloth, water proof - - - | J. L. Comstock - | Hartford, Ct. - | Jan. 21, 1828 |
| Do machine for cutting - - - - | George P. Mitchell - | Burlington, N. J. - | May 15, 1828 |
| Do water proof - - - - - | Abm. Straub - | Milton, Pa. - | June 30, 1828 |
| Do preparing belt and picker - - - | John J. Travis - | Franklin, Ct. - | Oct. 22, 1828 |
| Do rolling - - - - - | Harvey Paign - | Alexander, N. Y. - | Dec. 23, 1828 |
| Do and morocco, polishing - - - | Abel Bayrd - | South Reading, Mass. | Dec. 29, 1828 |

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|---|---|---|---|
| Do machine for finishing | James Burr | Johnstown, N. Y. | Nov. 24, 1820 |
| Do do splitting | Ephraim Howard and Joshua Butters | Boston, Mass. | May 3, 1820 |
| Do do do | Joshua Butters | Do | May 31, 1822 |
| Marble, machine for cutting and polishing | Samuel Mullikin | Philadelphia, Pa. | Mar. 11, 1791 |
| Do do sawing | Jona. Dickerson | New Jersey | Jan. 9, 1796 |
| Do do do | Jos. F. Mangin | New York | July 2, 1796 |
| Do do cutting | Do | Do | Feb. 16, 1797 |
| Do or pipe stone turner | David Clark | West Stockbridge | April 9, 1810 |
| Do and stone, cutting and polishing | Anson Clark | Do | April 10, 1810 |
| Do machine for sawing and polishing | Luther Bissel | Otsego, N. Y. | June 7, 1811 |
| Do do do | Eb. W. Judd | Middlebury, Vt. | Aug. 14, 1822 |
| Do grooving and beading | Harlow J. Torrey | New York | Nov. 1, 1825 |
| Do smoothing, polishing, &c. | Do | Do | Nov. 1, 1825 |
| Do rubbing and scouring | Elijah Ferris | West Chester, N. Y. | March 7, 1826 |
| Do cutting, sawing, and polishing | Archd. McAllister | Salem, N. Y. | Feb. 18, 1828 |
| Meat chopper | Hazial Smith | Philadelphia, Pa. | July 19, 1811 |
| Measuring and cutting leather | Thomas Howe | Worcester, Mass. | April 18, 1829 |
| Do do garments | Stephen Severson | Baltimore, Md. | Mar. 15, 1826 |
| Mitre machine | Zaccheus Kelley | Easton, Md. | April 22, 1812 |
| occasins, applying hat trimmings to | James Jackson | Burlington, N. Y. | April 1, 1815 |
| Do manufacturing | Alfred Tillotson | New York | Nov. 22, 1823 |
| Do do in moulds | John J. Staples and William H. Cornell | Do | Dec. 15, 1824 |
| Do do | Catharine Elliot | Do | Jan. 26, 1825 |
| Do do water proof | John Syms | Do | Nov. 10, 1827 |
| Morocco, dying and polishing | Moses Hall | Charlestown, Mass. | Dec. 31, 1817 |
| Mortar, machine for making | Daniel Hunt | Stanford, Ct. | Mar. 22, 1810 |
| Do moulding and pressing brick | John M. Brookings | Wiscasset, Me. | Jan. 23, 1826 |
| Do tub mill | James Parker | Gardiner, Me. | Jan. 28, 1826 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Mortar machine, and for preparing or grinding apples - | T. H. Streeter and J. S. Wilbert - | Chili, N. Y. - | June 12, 1827 |
| Mortising machine - - - - - | Simeon Glover & D. Parmelee - | Newtown, Ct. - | June 8, 1807 |
| Do do - - - - - | Henry Parmelee - | Killingworth, Ct. - | Feb. 15, 1810 |
| Do do and tenoning - - - | Sylvanus Baldwin - | Montpelier, Vt. - | Mar. 17, 1810 |
| Do do - - - - - | Nathan Mead and J. Cutal - - | Walpole, N. H. - | Nov. 3, 1817 |
| Do do - - - - - | Ezra Ripley - | New York - - | Dec. 22, 1825 |
| Do do lever power - - - | Thomas Green - | Manlius, N. Y. - | April 12, 1826 |
| Do do - - - - - | Simon Le Roy - | Mexico, N. Y. - | July 10, 1827 |
| Do do and tenoning - - - | John McClintic - | Chambersburg, Pa. - | Oct. 8, 1827 |
| Do do - - - - - | Abel Greenleaf & H. Amidon - - | Mexico, N. Y. - | Dec. 28, 1827 |
| Do do - - - - - | John J. Kellogg - | Richmond, N. Y. - | Jan. 24, 1828 |
| Do do - - - - - | William E. Marsh - | Westfield towns'p N.J. | April 18, 1828 |
| Do do and tenoning - - - | William Jackson and J. J. Speed, jr. - | Speedville, N. Y. - | Oct. 10, 1828 |
| Do do do - - - - | Luther Davis - | Northampton, Mass. | April 14, 1829 |
| Do do and sawing, boring, &c. - - | Reuben Medley - | Bloomfield, Ky. - | July 7, 1829 |
| Pales for fencing - - - - - | Reuben Hyde - | Winchester, Mass. - | April 19, 1822 |
| Do do - - - - - | Amos Miner - | Camillus, N. Y. - | April 25, 1823 |
| Pegs, machine for making wooden - - - | Thomas Rowell - | Hartford, Vt. - | Nov. 24, 1820 |
| Do do pointing, splitting, and waxing - | Do - - | Do - - | Feb. 11, 1825 |
| Do do cutting - - - - | Hez. Thurber - | Painted Post, N. Y. - | May 22, 1828 |

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|---|---|---|---|
| Do do making | S. Beckwith, S. Beckwith, jr., & Eleazer Beckwith | Westmoreland, N. Y. | Jan. 27, 1829 |
| Pegging machine | Nathan Leonard | Merrimack, N. H. | June 11, 1829 |
| Planing machine | John Bennock | Boston, Mass. | June 1, 1805 |
| Do and sawing bellows boards | John Hinman | New Haven, Ct. | June 1, 1805 |
| Do | Joseph Hawkins | Philadelphia, Pa. | Feb. 19, 1806 |
| Do and joining | Joseph S. Mott | Alburg, Vt. | Mar. 8, 1806 |
| Do | Christian Ritter | Beaver, Pa. | Aug. 11, 1809 |
| Do | Joseph Coppinger | Baltimore, Md. | Oct. 31, 1809 |
| Do and shaving | William Badger | Madison co., Miss. | Mar. 2, 1813 |
| Do for barge and scaleboards | William Kimball and Samuel Willard, jr. | Mount Vernon, N.H. | Oct. 23, 1813 |
| Do | James Baldwin | Westfield, Mass. | Mar. 7, 1818 |
| Do | Herman Allen | Randolph co., N. C. | Dec. 22, 1826 |
| Do | Josiah Reihm | Savage Factory, Md. | Nov. 1, 1827 |
| Do grooving, cutting boards, and dressing brick | William Woodwarth | Hudson, N. Y. | Dec. 27, 1828 |
| Do grooving | Caleb Taylor | Angola, N. Y. | Feb. 7, 1829 |
| Do cylindrical | Uri Emmons | New York | April 25, 1829 |
| Do engine, circular | Do | Do | Sept. 10, 1829 |
| Plaster paris, machine for breaking | Paul Geiger | Robeson, Pa. | May 12, 1812 |
| Pluribus unum, (combination of levers and wheels) | Henry Clare and Pasquale Ricardi | New York | May 25, 1818 |
| Privies, constructing | Mark M. Duplat | Charleston co., S. C. | Mar. 16, 1820 |
| Do and vaults | Thomas Rundle | Boston, Mass. | Sept. 10, 1829 |
| Pulverizing substances | Nathan Jones | Do | July 23, 1816 |
| Razor straps | Jona. Crumbacker | Union, Md. | Dec. 24, 1819 |
| Do | John M. Fors | Baltimore, Md. | Oct. 2, 1821 |
| Do | Jac. Houck | New Market, Md. | Jan. 24, 1822 |
| Do | John W. Osborn | Terre Haute, In. | Jan. 21, 1829 |

## LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Razor straps | Gooding Holloway | Chester, O. | April 3, 1829 |
| Reel for handling hides | William Brown | Frankfort, Pa. | April 17, 1828 |
| Roofs for houses | Henry Johnson | - - | May 10, 1802 |
| Do shingling | Thomas Young | Philadelphia, Pa. | May 11, 1807 |
| Do for buildings | Nathaniel Adams | Marlborough, N. Y. | July 29, 1829 |
| Ruffles, plaiting | Sylvester W. Talbott | Dedham, Mass. | May 4, 1816 |
| Ruler, triangular measure case | Allen Ward | Philadelphia, Pa. | Oct. 11, 1828 |
| Do mathematical, for cutting garments | Otis Madison | Troy, N. Y. | Aug. 18, 1829 |
| Sacking bottoms, mode of tightening | John R. Simpson | Boston, Mass. | Aug. 10, 1827 |
| Saddles, improvement in | Thomas Stickney | Massachusetts | Nov. 16, 1797 |
| Do spring tree | David C. Moseley | Boston, Mass. | April 25, 1810 |
| Do trees, machine for making | Reuben Fairchild and Eben. Fairchild | Fairfield, Ct. | June 1, 1810 |
| Do do | Chauncey Stiles, jr. | Philadelphia, Pa. | June 28, 1814 |
| Do do | John Bryan | Lexington, Ky. | Oct. 24, 1815 |
| Do spring | Charles Klasson | Baltimore, Md. | May 22, 1816 |
| Do tree springs | Nathan Mixer | Keene, N. H. | May 28, 1818 |
| Do spring | Samuel M. Leaming | Lexington, Ky. | July 6, 1818 |
| Do seats, elastic | William Harper | Nashville, Tenn. | April 2, 1819 |
| Do without trees | Peter Dixon | Philadelphia, Pa. | July 16, 1819 |
| Do seats, elastic | Peter H. Martin | Nashville, Tenn. | Feb. 23, 1820 |
| Do | Elisha Walker | Aurora, N. Y. | Nov. 16, 1820 |
| Do | Peter Dixon | Philadelphia, Pa. | April 25, 1821 |
| Do | John J. Morris | New York | Aug. 28, 1821 |
| Do trees | R. & D. Fairchild | Fairfield, Ct. | Mar. 6, 1822 |

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|---|---|---|---|
| Do do | Anthony Null | Philadelphia, Pa. | Aug. 29, 1822 |
| Do do and spring girth | Peter Harry | Harrisonburg, Va. | Feb. 1, 1823 |
| Do do | Chris. Kurtz | Lancaster, Pa | May 28, 1823 |
| Do spring tree | Joseph Dinwiddie and Wm. Dinwiddie | Concord, Va. | Aug. 8, 1823 |
| Do spring | Nathan W. Conklin | Jamaica, N. Y. | Mar. 27, 1824 |
| Do double side | Hugh M. Rose | Lexington, Ky. | June 19, 1824 |
| Do | Thos. G. Prettyman | Alexandria, D. C. | Sept. 30, 1825 |
| Do | Lacy White | New York | Sept. 30, 1825 |
| Do | William H. Collins | Cincinnati, O. | May 27, 1826 |
| Do trees | George Wilkes | Fredonia, In. | Nov. 22, 1826 |
| Do spring | Thomas Harvey | Middletown, Del. | Jan. 24, 1828 |
| Do | Alexander Marshall | Pikeland town'p, Pa. | April 30, 1828 |
| Do leather tree | Matthias Haldeman | Trapp, Pa. | Oct. 12, 1829 |
| Sausages, machine for cutting meat for | George Neff | Pennsylvania | Mar. 19, 1811 |
| Do do do | David Beissel | Harrisburg, Pa. | Oct. 26, 1818 |
| Do do do | George B. Craft | Red Stone, Pa. | Oct. 9, 1819 |
| Do do making | A. Glendenning | Loudon co., Va. | Sept. 9, 1824 |
| Do do cutting | Samuel Fahrney | Washington co., Md. | Dec. 9, 1828 |
| Do do | Elias Wade | Elizabethtown, N. J. | Jan. 26, 1829 |
| Sawing wood and bark | Thomas Farrington | Boston, Mass. | May 9, 1792 |
| Do do stone, &c. | Eb. Jones | Alfred, Mass. | June 28, 1808 |
| Do circular timber | James Linsey | Cazenovia, N. Y. | Feb. 4, 1809 |
| Do wood in a circular manner | Roger Smith | Norwich, Ct. | April 24, 1810 |
| Do boards, &c. | Oliver Judd, jr. | London, Mass. | May 1, 1810 |
| Do various articles of carpenter and wheelwright work, &c. | David Parmelee | Reading, Ct. | Oct. 25, 1810 |
| Do machine | E. Olds & P. Upham | Brookfield, Mass. | Dec. 26, 1810 |
| Do do | Russell Canfield | Philadelphia, Pa. | May 1, 1812 |
| Do timber | Daniel Crane | Clarksburg, Va. | April 15, 1813 |
| Do machine, called the expeditious sawyer | John H. Morrison | Boscawen, N. H. | Mar. 18, 1814 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Sawing clapboards | E. Pray, E. Benjamin, and J. S. Stone | Maine | Dec. 28, 1824 |
| Do boards | William Kendall | Waterville, Me. | Jan. 16, 1826 |
| Do circular timber | Benjamin Overman | Greensburg, N. C. | Sept. 15, 1826 |
| Do logs into plank, &c. | Peter Tomlinson | Derby, Ct. | April 3, 1829 |
| Scaffolds, machine for raising and supporting | Hy. L. Nichols | Middleburg, Vt. | April 24, 1824 |
| Scaleboards, machine for cutting | Jona. Carrington | Litchfield, Ct. | April 27, 1812 |
| Scale for draughting garments | N. B. Starr | Philadelphia, Pa. | July 10, 1826 |
| Scrubbing floors, machine for | Simon B. Willard | Bloomfield, N. Y. | Nov. 17, 1808 |
| Selvage, double stitched | J. A. & E. Wadsworth | Portsmouth, R. I. | Oct. 5, 1824 |
| Sewer, common mouth | Alex. Ramsey | Philadelphia, Pa. | Oct. 3, 1820 |
| Shaving woods for various purposes | Benjamin Hoadley | Waterbury, Ct. | June 14, 1814 |
| Do tanners' bark | W. & J. Goodwin | Lebanon, Ct. | Oct. 16, 1814 |
| Do and smoothing wood | Abm. Brownson | Lockport, N. Y. | June 21, 1826 |
| Do shingles and boards, machine for | Bill Jarvis | New York | July 8, 1797 |
| Shingle machine | David French | Connecticut | July 25, 1803 |
| Do sawing | Isaac Baker | Amherst, Mass. | May 8, 1805 |
| Do | Ashael A. Kersey | Hartford, Ct. | Oct. 9, 1805 |
| Do and stave machine | Jer. McIlvain | Chester, Pa. | April 1, 1807 |
| Do machine | Rob. & T. Nicholson | Bairdstown, Ky. | Dec. 13, 1808 |
| Do shaving | Jac. Balcom | Reading, N. Y. | July 15, 1809 |
| Do splitting | Jos. Coppinger | Baltimore, Md. | Oct. 31, 1809 |
| Do shaving | Abiel A. Cooley | Bolton, Ct. | July 13, 1810 |
| Do and staves, dressing | Daniel Newell | Saratoga, N. Y. | July 26, 1810 |
| Do do machine | William Baley | Nelson co., Ky. | April 10, 1811 |

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|---|---|---|---|
| Do shaving | D. Parker & J. Sanford | Sharon, Ct. | May 30, 1811 |
| Do dressing | John Heavin | Montgomery co., Va. | Mar. 16, 1812 |
| Do machine | John Loomis | Geneva, N. Y. | Dec. 24, 1812 |
| Do | Otis Paine | Foxboro', Mass. | June 18, 1813 |
| Do mill | Willard Earle | Hubbardstown, Mass. | Sept. 3, 1813 |
| Do sawing | Salmon Fuller | Indiana Ter. | Nov. 14, 1814 |
| Do do | Oliver Merritt | Berkhemstead, Ct. | May 22, 1816 |
| Do and clapboards, sawing | Josiah Jaquith | Sherburn, Mass. | June 26, 1817 |
| Do machine | William Earl | Boston, Mass. | Dec. 28, 1822 |
| Do do | Amasa Andrews | Livermore, Me. | Dec. 29, 1823 |
| Do do | James Sawyer | Templeton, Mass. | May 4, 1824 |
| Do sawing, with a gang of saws | Jona. Culver | Norfolk, N. Y. | Nov. 15, 1825 |
| Do do | Ephm. Parker | Cheshire co., N. H. | Dec. 17, 1825 |
| Do do | Willard Foster | Oswego, N. Y. | June 25, 1826 |
| Shingles, sawing machine | Oliver Goddard | Bridgeton, Me. | April 6, 1826 |
| Do machine | Paul Hawes | Lockport, N. Y. | Mar. 30, 1827 |
| Do sawing | Nathan Swift | Lebanon, Ct. | June 27, 1827 |
| Do machine, improvement on Hawes's | George A. Hoard | Antwerp, N. Y. | Sept. 20, 1827 |
| Do do | George W. Dana | Lowville, N. Y. | Sept. 20, 1827 |
| Do do | Oliver Wheeler | Rochester, N. Y. | Nov. 10, 1827 |
| Do sawing | Cheney Read | Western, Mass. | April 2, 1828 |
| Do machine | Stillman Howe and Charles Chaffin | Holden, Mass. | May 22, 1828 |
| Do do | Danforth Wilder | Rome, N. Y. | Aug. 25, 1828 |
| Do do | Richard McOmber | Galway, N. Y. | Oct. 10, 1829 |
| Do do | Joel Barnes | Cornwall Bridge, Ct. | Oct. 10, 1829 |
| Do do | Simeon Wood | Holden, Mass. | Nov. 10, 1829 |
| Do do | Parke Jones | James City co., Va. | Nov. 12, 1829 |
| Do cutter | Joel N Johnson | Fredonia, N. Y. | Dec. 8, 1829 |
| Shoes, machine for cutting | Benjamin Miller | Philadelphia, Pa. | May 9, 1814 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Shoes, socks, &c. - - - - - | S. Norris and J. C. Wood - | Philadelphia, Pa. - | Jan. 30, 1822 |
| Shoemaker - - - - - | Gideon Drake - | Windsor, Ct. - | Mar. 14, 1816 |
| Sick, machine for moving the - - - | John C. Jenckes - | Providence, R. I. - | May 29, 1823 |
| Sifting sand, lime, &c. - - - - | E. Blanc and B. H. P. B. Latrobe - | New Orleans - | April 14, 1821 |
| Sign for lottery offices - - - - | Elijah Secor - | New York - - | Feb. 9, 1825 |
| Skins, machine for splitting sheep - - - | James Stransfield - | Virginia - - | Nov. 16, 1796 |
| Do do do - - - - | Thomas O. Harrison | New Jersey - | May 19, 1800 |
| Do do do - - - - | Asa W. Chickering - | Massachusetts - | Nov. 29, 1802 |
| Do do do - - - - | William Lillie - | West Chester, N. Y. | Nov. 9, 1805 |
| Do do do - - - - | Stephen Payn - | - - - | Mar. 31, 1806 |
| Do do do - - - - | William Bent - | Boston, Mass. - | Feb. 24, 1808 |
| Do do do - - - - | Isaac Cobb - | Walpole, N. H. - | July 12, 1808 |
| Do do do - - - - | John Woodcock - | Worcester, Mass. - | May 8, 1809 |
| Do do do improvement on Bent's - | William Brown - | Philadelphia Pa. - | Nov. 20, 1809 |
| Do do do - - - - | William Bent - | Boston, Mass. - | Sept. 9, 1813 |
| Do do do - - - - | Do - | Philadelphia Pa. - | June 17, 1822 |
| Slates, manufacturing, for roofing - - - | Thomas Woodsend - | - - - | Aug. 7, 1806 |
| Do application to various uses - - - | William Shelden, jr. | Springfield, Mass. - | Feb. 28, 1811 |
| Do polishing and framing cyphering - - | John Coleman - | Baltimore, Md. - | Dec. 31, 1813 |
| Do manufacturing - - - - - | J. Madison and E. & P. S. Mattes - | Easton, Pa. - | Dec. 22, 1826 |
| Do do - - - - - | Thomas Symington - | Baltimore, Md. - | Nov. 17, 1828 |
| Slitting boards, machine for - - - - | Ez. Olds - - | Brookfield, Mass. - | June 29, 1808 |

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|---|---|---|---|
| Do timber | William Barker | Kingston, Pa. | Mar. 25, 1826 |
| Socks, moccasins or Tuscarora | William Botton | Northampton, Mass. | Oct. 21, 1814 |
| Do Columbian | Joseph Mason | Cunnington, Mass. | Feb. 8, 1816 |
| Do for over shoes | William Brower | Rensselaer co., N. Y. | Mar. 6, 1822 |
| Sofa, rocking, and easy chair | Bethnel Finney | Readsborough, Vt. | Nov. 22, 1821 |
| Do elastic spring | Sherman Blair | New Haven, Ct. | Feb. 2, 1822 |
| Do and bedstead united | John R. Penniman | Boston, Mass. | Aug. 22, 1827 |
| Do or sliding joint settee | Isaiah Jennings | New York | June 25, 1824 |
| Splitting timber, machine for | Daniel Wright | Franklin, N. Y. | Jan. 15, 1818 |
| Square, carpenters' | Cyrus Hawes | Bennington, Vt. | Dec. 15, 1819 |
| Do for cutting garments | James G. Wilson | New York | Feb. 28, 1827 |
| Staves and heads for barrels | Barnabas Langdon & William Morey | Washington co., N. Y. | June 20, 1811 |
| Do double and parallel jointer | Joseph S. Keen | Philadelphia, Pa. | Oct. 1, 1816 |
| Do shaving and listing | Daniel North and H. Naramor | Caledonia, N. Y. | Nov. 26, 1824 |
| Do machine, cylindrical, for dressing | John R. Averill | Manchester, N. Y. | Dec. 29, 1824 |
| Do making ready for the truss hoop | Amory Amsden | Bloomfield, N. Y. | July 27, 1827 |
| Do machine for dressing | Levi Benton | Hanover, N. Y. | July 12, 1828 |
| Do do do | Charles B. Goodrich | Rutland, Mass. | Feb. 3, 1829 |
| Do do do revolving | Do | Do | Feb. 4, 1829 |
| Stiffner spring for vests | James G. Shute | Boston, Mass. | Dec. 5, 1827 |
| Stirrups, manufacturing | Daniel Adams | Keene, N. H. | Feb. 3, 1819 |
| Do irons | Daniel Powles | Baltimore | Jan. 26, 1827 |
| Stock | Joseph Towson | Do | May 14, 1827 |
| Do jubilee | Wm. J. Cantello and R. M. Kerrison | New York | Aug. 30, 1826 |
| Do composition hinge | G. R. Sillibridge | Do | Oct. 10, 1829 |
| Stone, sawing and polishing, and moulding | Simeon B. Withers | Bloomfield | Nov. 3, 1813 |
| Do do | John and S. Dwight | Boston, Mass. | June 17, 1818 |
| Do do | Nathaniel Holmes | Barnstable, Mass. | Jan. 24, 1823 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Stone, hewing and hammering | Charles B. Reed | W. Bridgewater, Ms. | June 27, 1827 |
| Do dressing, drilling, and cutting | Herman Bourne | Salem, Mass. | Aug. 3, 1827 |
| Sugar, machine for breaking | James Mitchell | Philadelphia, Pa. | Sept. 11, 1822 |
| Do do do | William G. Sterling | Bridgeport, Ct. | Jan. 28, 1829 |
| Tables, manufacturing | Sullivan Snow | Saco, Me. | Mar. 2, 1815 |
| Do do breakfast and dining | Peter Barker | Worthington, O. | Aug. 6, 1828 |
| Tailoring, art of | Greenberry Ross | Carlisle, Ky. | April 5, 1826 |
| Do do making waistcoats and pantaloons, &c. | Charles Kenrick | New York | Feb. 8, 1822 |
| Tenons, machine for cutting | E. Basford & E. Johnson | Livermore, Mass. | April 28, 1810 |
| Do do do in carriage wheels | Jona. Reynolds | Dutchess co., N. Y. | June 24, 1815 |
| Tewell and water back | Oliver Aimes | Plymouth, Mass. | June 24, 1809 |
| Do do | Gideon Davis | Sandy Spring, Md. | May 26, 1818 |
| Do do do | Asa Blood | Conhocton, N. Y. | Oct. 24, 1826 |
| Tew, iron | Wm. Barker | Luzerne co., Pa. | Nov. 10, 1818 |
| Tile and brick machine | Wm. Hodgson | Richmond, Va. | May 22, 1805 |
| Do and pan | Wm. Harwood | Do | July 3, 1806 |
| Trip or tilt hammer | John F. Gould | - | Mar. 8, 1806 |
| Do do | Joel Fox, jr. | Middlesex, Mass. | Feb. 25, 1807 |
| Do hammer | John Smith | Otsego, N. Y. | Oct. 14, 1809 |
| Do do | Ezra Osborn | Berkshire, Mass. | Jan. 8, 1810 |
| Do do | Elisha Downer | Depeyster, N. Y. | April 11, 1810 |
| Do do | Oliver Aimes | Plymouth, Mass. | April 25, 1810 |
| Do do | Joseph Hines | Providence, R. I. | June 16, 1810 |
| Do do | Joseph Goulding | Leicester, Mass. | Mar. 1, 1811 |

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|---|---|---|---|
| Do do | Josiah Beal | Ontario co., N. Y. | Oct. 5, 1811 |
| Do do | Stephen Morrill | Readfield, Mass. | Sept. 28, 1812 |
| Do do | Urban Palmer | Spencer, N. Y. | July 31, 1815 |
| Do do | Jac. Everson | Botetourt co., Va. | May 3, 1821 |
| Do do | Wm. Bowling | Harrisonburg, Va. | July 1, 1823 |
| Do do | Elisha Crowell | Gardiner, Me. | Aug. 4, 1826 |
| Do do | Philip P. Read | Mercer, Me. | Dec. 7, 1826 |
| Do do foot | E. Pierce & J. Hathaway | Pultney, N. Y. | Oct. 19, 1827 |
| Do do | Levi Rosenkrans | Big Flatt, N. Y. | Mar. 17, 1828 |
| Do do portable | Samuel Kilburn | Sterling, Me. | Aug. 18, 1829 |
| Trunks, leather | Robert C. Martin | Philadelphia, Pa. | Aug. 28, 1824 |
| Tubs, pails, kegs, &c. | Robert U. Richards | Winchester, Ct. | Feb. 19, 1824 |
| Do machine for cutting wood for sides of | Jer. Bailey | Philadelphia, Pa. | April 7, 1827 |
| Veneers, machine for ploughing | William Stillman | Rhode Island | Mar. 16, 1801 |
| Do do shaving | Sylvanus Bonnel | New Jersey | Feb. 28, 1816 |
| Do do sawing | Adam Stewart | Baltimore, Md. | July 5, 1817 |
| Do do | John P. Allen | Manchester, Mass. | Dec. 7, 1826 |
| Do do slitting and tenons | John McClintic | Chambersburg, Pa. | April 21, 1829 |
| Do do cutting | Caleb B. Burnap | Belfast, Me. | May 1, 1829 |
| Do do sawing | Amos F. Smith | Salem, Mass. | Sept. 10, 1829 |
| Do do do and pannel cutting | Job White and P. Quimby | Belfast, Me. | Sept. 12, 1829 |
| Veneer saw frame | Benjamin Crehore | Milton, Mass. | May 22, 1828 |
| Wafers, leather, for gloves, and machine for cutting | Elisha M. Ely | Paris, France | Jan. 28, 1829 |
| Washstand | John Williams | Baltimore, Md. | Mar. 15, 1828 |
| Washing machine | Nathaniel Briggs | New Hampshire | Mar. 28, 1797 |
| Do do | Ezra Welds | Massachusetts | June 26, 1799 |
| Do do | Do | Do | Sept. 17, 1799 |
| Do do | Samuel S. Dean | New York | Feb. 29, 1804 |
| Do do | Abm. Higham | Hudson, N. Y. | May 4, 1805 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Washing machine - - - - - - | Wm. T. Fulson and John Hayden - | Hallowell, Me - | Dec. 17, 1805 |
| Do do - - - - - - - | Reuben Buck - | Washington, N. Y. - | May 29, 1806 |
| Do do - - - - - - - | Richard R. Elliot - | Watertown, Mass. - | Feb. 28, 1807 |
| Do do - - - - - - - | Simeon Willard, jr. - | Hudson, N. Y. - | April 25, 1807 |
| Do do and churning - - - | Thomas Beatty - | | April 25, 1807 |
| Do do - - - - - - - | Josiah Cleaveland - | Franklin co., Pa. - | June 6, 1807 |
| Do do - - - - - - - | Eb. Jones - - | Alfred, Mass. - | July 24, 1807 |
| Do do - - - - - - - | Martin Lee and T. Barber - - | Oneida co., N. Y. - | Oct. 1, 1807 |
| Do do - - - - - - - | Wm. Wadsworth - | Hartford, Ct. - | Mar. 15, 1808 |
| Do do - - - - - - - | Leonard Kennedy - | Hartford, Ct. - | April 26, 1808 |
| Do do - - - - - - - | Elam King - - | Johnstown, N. Y. - | May 14, 1808 |
| Do do - - - - - - - | Martin Lee - - | New York - - | June 4, 1808 |
| Do do churning, and getting out clover seed - | Robert Patton - | Columbia, Pa. - | June 13, 1808 |
| Do do perpendicular - - - | Edward Jones - | Alfred, Mass. - | June 28, 1808 |
| Do do - - - - - - - | Asahel E. Paine - | Delhi, N. Y. - | July 1, 1808 |
| Do do - - - - - - - | Enos Prescott - | New Marlboro', Mass. | July 11, 1808 |
| Do do - - - - - - - | Theron Henry - | Bloomfield, N. Y. - | July 11, 1808 |
| Do do - - - - - - - | Thomas Osgood - | Charlestown, Mass. - | July 11, 1808 |
| Do do - - - - - - - | Eben. Lister - | Killingworth, Ct - | July 11, 1808 |
| Do do - - - - - - - | Dudley Loomis and Ira Millington - | Springfield, N. Y. - | July 11, 1808 |
| Do do - - - - - - - | Stephen W. Dana - | Rutland, Vt. - | Aug. 30, 1808 |
| Do do and churning - - | Stephen Winchester - | Newtown, Ct. - | Aug. 31, 1808 |

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|---|---|---|---|---|
| Do | do | do | Garry Bishop | Cazenovia, N. Y. | Sept. 7, 1808 |
| Do | do | and wringing | Septimus Tucker | Dublin, Pa. | Jan. 12, 1809 |
| Do | do | | Eli F. Hill | Fabius, N. Y. | Feb. 11, 1809 |
| Do | do | | Aziel Blodget | Amherst, N. H. | Feb. 16, 1809 |
| Do | do | | Joseph Yarwood | New Brunswick, N. J. | Mar. 11, 1809 |
| Do | do | | Levi Anderson | Bristol, Pa. | Mar. 23, 1809 |
| Do | do | | Wm. Buckman | Annapolis, Md. | Mar. 23, 1809 |
| Do | do | | Garry Bishop | Madison co., N. Y. | April 17, 1809 |
| Do | do | | Lemuel Bachelor | Vernon, N. Y. | April 24, 1809 |
| Do | do | | Orin Chatfield | Burlington, N. Y. | May 15, 1809 |
| Do | do | and churning | Nichs. Van Zandt | Washington City, D. C. | May 21, 1809 |
| Do | do | | Gardner Osgood | Madison co., N. Y. | June 7, 1809 |
| Do | do | | Martin Lee | Burlington, N. Y. | June 8, 1809 |
| Do | do | | Isaiah Jennings | New York | June 13, 1809 |
| Do | do | and press | Thomas Pierce | Fishkill, N. Y. | June 24, 1809 |
| Do | do | | Amos Hosford and E. Kelsey | Berlin, Ct. | June 27, 1809 |
| Do | do | | Tim'y Freeman | Madison co., N. Y. | June 30, 1809 |
| Do | do | | Shubael Kimball | Rhinebeck, N. Y. | Aug. 12, 1809 |
| Do | do | | Rosel Philips | Otsego co., N. Y. | Oct. 14, 1809 |
| Do | do | | Rob Robinson | Leesburg, Va. | Nov. 3, 1809 |
| Do | do | and churning | Sylvester Noble | Hosick, N. Y. | Feb. 1, 1810 |
| Do | do | and scouring | Jesse Roberts | Germantown, Pa. | April 25, 1810 |
| Do | do | | Isaac Loofborrow | New York | June 26, 1810 |
| Do | do | | Wm. Jackman | Painsville, Ohio | Oct. 8, 1810 |
| Do | do | | Daniel Robinson | Franklin, N. Y. | Dec. 15, 1810 |
| Do | do | | David Dungan | Upperville, Va. | May 23, 1811 |
| Do | do | and churning | William Stanton | Lynchburg, Va. | May 12, 1812 |
| Do | do | called the steam washer | Zina Phinney | Cairo, N. Y. | June 19, 1812 |
| Do | do | facilitating | James Truman | Philadelphia, Pa. | Aug. 21, 1812 |
| | | | Jos. Palmer | Brookfield, N. Y. | Aug. 21, 1812 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Washing machine - - - - - - | Erastus Denison - | New Lisbon, N. Y. - | Dec. 30, 1812 |
| Do do - - - - - - - | John F. Whipple - | Easton, N. Y. - | June 10, 1813 |
| Do do - - - - - - - | Josiah Hotchkiss - | Woodbury, Ct. - | June 18, 1813 |
| Do do - - - - - - - | Silas Hitchcock - | Vernon, N. Y. - | June 25, 1813 |
| Do do - - - - - - - | John Gray - - | Eaton, N. Y. - | Feb. 4, 1814 |
| Do do - - - - - - - | Eliphalet Jacques - | Newburyport, Mass. | May 24, 1814 |
| Do do - - - - - - - | Joshua Lane - | Homer, N. Y. - | May 15, 1815 |
| Do do - - - - - - - | Chris. Seebold - | New Berlin, Pa. - | Feb. 1, 1816 |
| Do do - - - - - - - | James Burnett - | Providence, R. I. - | Sept. 13, 1818 |
| Do do - - - - - - - | Beardsley Hendryx - | Springfield, N. Y. - | May 6, 1819 |
| Do do - - - - - - - | Benjamin Cox - | Hadley, Mass. - | Aug. 15, 1820 |
| Do do - - - - - - - | James Barron - | Norfolk, Va. - | Dec. 7, 1821 |
| Do do and grinding - - - - | James Justin - | Pittsburg, Pa. - | April 19, 1822 |
| Do do - - - - - - - | F. Goucher - | Philadelphia, Pa. - | June 15, 1822 |
| Do do - - - - - - - | Pascal Cady - | Brooklyn, Ct. - | Jan. 17, 1822 |
| Do do - - - - - - - | David Watson - | Fayette, Me. - | Oct. 15, 1822 |
| Do do - - - - - - - | Isaac Leavitt - | Turner, Me. - | Aug. 12, 1823 |
| Do do - - - - - - - | Andw. Glendenning | Butler co., Pa. - | Sept. 25, 1823 |
| Do do - - - - - - - | William Cahoon - | Winfield, N. Y. - | June 15, 1824 |
| Do do - - - - - - - | Eb. Bewey - - | Butternuts, N. Y. - | June 24, 1824 |
| Do do - - - - - - - | Andw. Glendenning | Loudon co., Va. - | Sept. 9, 1824 |
| Do do - - - - - - - | John West - - | Middletown, Ct. - | Dec. 14, 1824 |
| Do do lever - - - - - | Reuben Wheeler - | Vergennes, Vt. - | Feb. 26, 1825 |
| Do do - - - - - - - | Moses J. Clark - | Auburn, N. Y. - | Nov. 8, 1825 |
| Do do - - - - - - - | Sherburn Bostwick - | Thompson, Ohio - | Dec. 8, 1825 |

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|---|---|---|---|---|
| Do | do | Oliver Deane | Walpole, Mass. | Jan. 11, 1826 |
| Do | do | Willard Foster | Oswego, N. Y. | Jan. 25, 1826 |
| Do | do by steam | Junius Smith | London, England | Jan. 28, 1826 |
| Do | do | Edward Thurston | Burlington, Vt. | Mar. 8, 1826 |
| Do | do | Richard V. Mudge | Durham, N. Y. | April 12, 1826 |
| Do | do rocking | John G. Philip | Kinderhook, N. Y. | April 12, 1826 |
| Do | do | S. Church and H. Clark | Utica, N. Y. | July 6, 1826 |
| Do | do by steam | William Burton, jr. | Aimsville, N. Y. | Aug. 16, 1826 |
| Do | do | Burroughs Beach | New Milford, Ct. | Nov. 24, 1826 |
| Do | do | David G. Dunham | New Brunswick, N. J. | Dec. 7, 1826 |
| Do | do | Chester Stone | Middlebury, Ct. | Feb. 17, 1827 |
| Do | do | David Beard | Buffalo, N. Y. | June 27, 1827 |
| Do | do and scouring | John Goulding | Dedham, Mass. | Aug. 24, 1827 |
| Do | do called accelerating washer | Moses Cass | Caroline, N. Y. | Aug. 29, 1827 |
| Do | do | Franklin Kelsey | Middletown, Ct. | Sept. 28, 1827 |
| Do | do and shelling corn | Benjamin Rice | Denmark, N. Y. | Nov. 23, 1827 |
| Do | do and churning | Rufus R. Palmer | Caroline, N. Y. | Mar. 21, 1828 |
| Do | do | Aaron Bull | Do | Mar. 28, 1828 |
| Do | do improvement on Leavitt's | Eli M. Gibbs | Chenango co., N. Y. | May 1, 1828 |
| Do | do | Moses P. Parker | Lowville, N. Y. | May 1, 1828 |
| Do | do | George Hancock | Maysville, Ky. | May 24, 1828 |
| Do | do rotary | Calvin Post | Springport, N. Y. | July 15, 1828 |
| Do | do | Simon Willard, jr. | Cincinnati, O. | Aug. 2, 1828 |
| Do | do and pressing | Hy. Averill | Richland, N. Y. | Aug. 14, 1828 |
| Do | do | John R. Davis | Hartland, N. Y. | Sept. 2, 1828 |
| Do | do | Joseph & R. Hathaway | Pultney, N. Y. | Sept. 5, 1828 |
| Do | do and churning | John Grout | Caroline, N. Y. | Oct. 10, 1828 |
| Do | do | Eber. Blodget | Watervleit, N. Y. | Dec. 10, 1828 |
| Do | do | Samuel A. Brownson | Montrose, Pa. | Dec. 26, 1828 |
| Do | do | Reuben Mosher | Galway, N. Y. | Jan. 8, 1829 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Washing machine | Amos Larcom | Watervleit, N. Y. | Jan. 16, 1829 |
| Do do | John Taylor | Dunstable, N. H. | April 1, 1829 |
| Do do | Stephen Hinds | Montrose, Pa. | April 25, 1829 |
| Do do and churning | Freedus Reed | Pike township, Pa. | June 11, 1829 |
| Do do called the complete washer | Eph'm Wheeler | Galway, N. Y. | June 11, 1829 |
| Do do and churning | Joel B. Pratt | Milo, N. Y. | July 14, 1829 |
| Do do | Wm. E. Arnold | Haddam, Ct. | Aug. 3, 1829 |
| Do do and heating water | Enos D. Cherry | Auburn, N. Y. | Sept. 10, 1829 |
| Do do | George A. Stocking | Aurelius, N. Y. | Sept. 10, 1829 |
| Do do called the Queen's washer | Pinkham Mosher | Ballston Spa, N. Y. | Oct. 10, 1829 |
| Do do and churn | George B. Gibbs | Le-Raysville, Pa. | Oct. 10, 1829 |
| Do do | H. Shively, R. S. McEwen, and J. Lindsey | Fredericksburg, Ohio | Oct. 21, 1829 |
| Do do | Eleazer Berry | New York | Nov. 12, 1829 |
| Do do eclipse | Charles D. Wright | E. Haddam, Ct. | Nov. 19, 1829 |
| Do do | Roswell Brainerd | Haddam, Ct. | Nov. 23, 1829 |
| Do do | J. T. W. Dennis | Paintville, O. | Dec. 16, 1829 |
| Washing, filling, and corking bottles | Keene A. Bille | New York | Nov. 8, 1828 |
| Water table for doors | Nathaniel Briggs | Windham, Vt. | June 17, 1809 |
| Wheelwright's assistant | John Sitton | Pendleton, S. C. | Feb. 15, 1827 |
| Do do | Cyrus W. Beach | Schoharie, N. Y. | Mar. 16, 1827 |
| Window sashes | Stephen Parsons | Massachusetts | Nov. 20, 1797 |
| Do do raising | William Long | Connecticut | Nov. 20, 1800 |
| Do do and shutter, fastening | Benj. S. Walcott | Do | Sept. 4, 1802 |

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|---|---|---|---|
| Do do springs | Samuel J. Kemp | Norwalk, Ct. | July 1, 1803 |
| Do do fastening | Jacob Osborn | Connecticut | Nov. 24, 1803 |
| Do do springs | James Curtis | Massachusetts | Dec. 10, 1803 |
| Do do hanging | Wm. W. Hopkins | Norfolk co., Va. | Feb. 24, 1804 |
| Do do fastenings | Daniel M. Miller | Haddam, N. Y. | Mar. 8, 1804 |
| Do do springs | Joseph Eaton | Boston, Mass. | April 14, 1804 |
| Do do | John Hoover | New York | Nov. 19, 1804 |
| Do spring | Isaac Scott | New Haven, Ct. | Dec. 26, 1804 |
| Do apparatus for cleaning | Thomas Bruff | Washington, D. C. | July 24, 1807 |
| Do sash machine | Joel Farnham | Oswego, N. Y. | Jan. 7, 1809 |
| Do shutter fastenings | James Blanchard | New York | Jan. 14, 1809 |
| Do sash, machine for laying out | David Worthington | Hartford, Ct. | April 27, 1809 |
| Do shutter | Truman Bartholomew | New York | June 17, 1809 |
| Do spring, bolt, and key | Roger Smith | Norwich, Ct. | Mar. 8, 1810 |
| Do sash stuff, machine for trying | Eben. Basford | Livermore, Mass. | April 28, 1810 |
| Do springs | George Cannon | Nantucket, Mass. | Dec. 27, 1810 |
| Do sash spring bolt | Nathaniel Briggs | New York | Oct. 13, 1813 |
| Do spring bolt | Shadrack Trumbull | Suffield, Ct. | April 23, 1816 |
| Do blinds | George Munger | Cambridge, Md. | Mar. 20, 1817 |
| Do and door frames | John Jordan | Rockbridge co., Va. | April 30, 1817 |
| Do sash | Jer Bliss | Somerset, Ct. | June 17, 1817 |
| Do catches, rule joint for | Noble Hurdle | Georgetown, D. C. | Oct. 1, 1818 |
| Do springs | Gideon Drake | Hartford, Ct. | Oct. 26, 1818 |
| Do do | Hez. Salisbury, jr. | Brattleborough, Vt. | May 24, 1819 |
| Do shutter, fastening | B. West and P. Soper | Rome, N. Y. | Jan. 31, 1822 |
| Do curtains, screws and key | Hy. Andrew | New York | Mar. 6, 1822 |
| Do sashes, hanging | Francis Follet | Petersburg, Pa. | Oct. 15, 1822 |
| Do do spring | John Ballthorpe | - - - | May 22, 1811 |
| Do sash, machinery for making | Amos Miner | Elbridge, N. Y. | July 9, 1823 |
| Do shutter fastenings | Nathaniel Briggs | New York | Oct. 21, 1824 |

LIST OF PATENTS—COMMON TRADES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Window and bed curtains - - - - | Samuel Abbott and J. Prentis - | Chester, Mass. - | Aug. 23, 1825 |
| Do shades - - - - - | Rufus Conant - | Lyme, N. H. - | Sept. 9, 1825 |
| Do shutters, fire proof - - - - | J. Brown & Geo. W. Robinson - | Providence, R. I. - | Mar. 16, 1826 |
| Do shutter fastenings - - - - | Truman Bartholomew | New York - | Feb. 19, 1828 |
| Do sashes, cast iron - - - - | Isaac McNary - | Stafford, Ct. - | Feb. 23, 1828 |
| Do fastening, self-adjusting spring - - - | Holly Seely - | Unadilla, N. Y. - | July 14, 1828 |
| Do blinds - - - - - | John Parkerson - | Boston, Mass. - | Oct. 11, 1828 |
| Do sash, blinds, &c. - - - - | Jedediah Richards - | Elbridge, N. Y. - | Nov. 14, 1828 |
| Do shutters, securing - - - - | Truman Bartholomew | New York - | June 30, 1829 |
| Wooden ware - - - - - | L. Z. Parke - | Windham, N. Y. - | June 14, 1825 |
| Do do hollow - - - - | Elisha Briggs - | Perry, N. Y. - | July 30, 1827 |
| Workstand, shoemakers' - - - - | Wm. & Nathan Kelley | Littleton, Mass. - | Oct. 13, 1820 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Anderson, Levi | Bristol, Pa. | Washing machine | Feb. 23, 1809 |
| Aimes, Oliver | Plymouth, Mass. | Tewel and water back | June 24, 1809 |
| Atwell, Benj., & Israel Nichols | Otsego, N. Y. | Washing machine | Oct. 14, 1809 |
| Aimes, Oliver | Plymouth, Mass. | Trip hammer | April 25, 1810 |
| Aram, Pierre | Baltimore | Boots and shoes, elastic | Sept. 24, 1816 |
| Adams, Daniel | Keene, N. H. | Stirrups | Feb. 3, 1819 |
| Andrew, Hy. | New York | Window curtains, screws and key | Mar. 6, 1819 |
| Aiken, Herrick | Brighton, Mass. | Hames, coach and chase | Feb. 12, 1823 |
| Do | Do | Knife for splitting leather | Mar. 12, 1823 |
| Andrews, Amasa | Livermore, Me. | Shingle machine | Dec. 29, 1823 |
| Averill, John R. | Manchester, N. Y. | Stave dresser, cylindrical | Dec. 29, 1824 |
| Adams, Charles | Boston, Mass. | Bedstead windlass | Feb. 26, 1825 |
| Abbot, Samuel, and J. Prentis | Chester, Mass. | Curtains, window and bed | Aug. 23, 1825 |
| Allen, John P. | Manchester, N. Y. | Veneers, sawing | Dec. 7, 1826 |
| Allen, Herman | Easton, Pa. | Planing boards, machine for | Dec. 22, 1826 |
| Amsden, Amory | Bloomfield, N. Y. | Staves, making ready for truss hoop | July 27, 1827 |
| Adams, Wm. & Marcus | Ogden, N. Y. | Casks, barrels, hogsheads, &c. | Jan. 24, 1828 |
| Averill, Henry | Richland, N. Y. | Washing and pressing machine | Aug. 14, 1828 |
| Andrews, George | Tolland, Ct. | Felloes | Oct. 24, 1828 |
| Ayars, Joshua | Brookfield, N. Y. | Boot tree | Nov. 27, 1828 |
| Adams, Nathaniel | Marlborough N. Y. | Roofs for buildings | July 29, 1829 |
| Arnold, W. E. | Haddam, Ct. | Washing machine | Aug. 3, 1829 |
| Bronwer, Samuel | Massachusetts | Brick and pan tile | Aug. 17, 1793 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Briggs, Nathaniel | New Hampshire | Washing machine | Mar. 28, 1797 |
| Banks, William | Connecticut | Bread making | Dec. 14, 1798 |
| Baker, Isaac | Massachusetts | Churning machine | Feb. 20, 1802 |
| Do | Amherst, Mass. | Shingle sawing | May 8, 1805 |
| Bennock, John | Boston, Mass. | Planing machine | June 1, 1805 |
| Buck, Reuben | - - - | Washing machine | May 29, 1806 |
| Bedford, John | Philadelphia, Pa. | Boots and shoes, making | July 16, 1806 |
| Burtis, B. G., and G. Burtis | New York | Butter, machine for making | Feb. 27, 1807 |
| Beatty, Thomas | - - - | Washing and churning machine | April 25, 1807 |
| Buck, Reuben | Baltimore, Md. | Churn | June 23, 1807 |
| Bruff, Thomas | Washington, D. C. | Windows, apparatus for cleansing | July 24, 1807 |
| Barnum, Eli | Massachusetts | Boots and shoes, machine for making | Jan. 9, 1808 |
| Bent, William | Boston, Mass. | Splitting skins | Feb. 24, 1808 |
| Bolton, John | Philadelphia, Pa. | Churn | Aug. 2, 1808 |
| Bishop, Garry | Cazenovia, N. Y. | Washing and churning machine | Sept. 7, 1808 |
| Burtis, William | New Brunswick | Bench for tailors | Oct. 3, 1808 |
| Boyden, Seth | Foxborough, Mass. | Splitting and shaving leather, machine for | Jan. 7, 1809 |
| Blanchard, James | New York | Fastenings, window shutter | Jan. 14, 1809 |
| Blodget, Aziel | Amherst, N. H. | Washing machine | Feb. 16, 1809 |
| Buckman, William | Annapolis, Md. | Do do | Feb. 23, 1809 |
| Bishop, Garry | Madison co., N. Y. | Do do | April 17, 1809 |
| Bachelor, Lemuel | Vernon, N. Y. | Do do | April 24, 1809 |
| Briggs, Nathaniel | Windham, Vt. | Water table for doors | June 17, 1809 |
| Bartholomew, Truman | New York | Window shutter | June 17, 1809 |

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|---|---|---|---|
| Balcomb, Jac. | Reading, N. Y. | Shingle shaving | June 15, 1809 |
| Burt, Enoch | Princeton, N. J. | Churn | Nov. 20, 1809 |
| Brown, William | Philadelphia, Pa. | Splitting hides and skins, improvement on Bent's machine | Nov. 20, 1809 |
| Barber, Oliver | Hartford, Ct. | Coopering machine | Jan. 8, 1810 |
| Baldwin, Sylvanus | Montpelier, Vt. | Mortising and tenoning machine | Mar. 17, 1810 |
| Barnard, Cromwell | Nantucket, Mass. | Dough, machine for breaking | April 17, 1810 |
| Basford, Eb., & Elisha Johnson | Livermore, Mass. | Tenons, machine for cutting | April 28, 1810 |
| Basford, Eben. | Do | Sash stuff, machine for trying | April 28, 1810 |
| Bacon, Ephraim | Hancock co., Mass. | Churning machine | July 26, 1810 |
| Beach, Joseph | Northfield, Mass. | Churn | Jan. 24, 1811 |
| Baley, William | Nelson co., Ky. | Shaving shingles and staves, machine for | April 10, 1811 |
| Ballthorpe, John | - - | Window sash spring | May 22, 1811 |
| Bissel, Luther | Otsego, N. Y. | Marble sawing and polishing machine | June 7, 1811 |
| Beal, Josiah | Ontario co., N. Y. | Trip hammer | Oct. 5, 1811 |
| Barker, T. E., and L. S. Fordham | Hudson, N. Y. | Hides, breaking, taking off hair, fleshing, &c. | Oct. 15, 1812 |
| Badger, William | Madison co., Miss. | Planing and shaving machine | Mar. 2, 1813 |
| Bent, William | Boston, Mass. | Slitting skins | Sept. 9, 1813 |
| Briggs, Nathaniel | New York | Window sash spring bolt | Oct. 13, 1813 |
| Broad, James, and Jos. Broad | Springfield, Mass. | Dyewoods, rasping, &c. | Mar. 1, 1814 |
| Browne, Sidney B. | West Chester co., N. Y. | Leather, uniting by metal or wooden pegs | April 2, 1814 |
| Beale, Thomas K. | Alexandria, D. C. | Brick cornice for buildings | May 28, 1814 |
| Broad, Aaron | Litchfield, Ct. | Dye stuffs, barks, &c., machine for cutting | June 9, 1814 |
| Bolton, William | Northampton, Mass. | Socks, moccasins or Tuscarora | Oct. 21, 1814 |
| Brush, Mary | New York | Corsets | July 21, 1815 |
| Bryan, John | Lexington, Ky. | Saddle trees | Oct. 24, 1815 |
| Bonnel, Sylvanus | New Jersey | Veneers, shaving | Feb. 28, 1816 |
| Britz, Adam | Philadelphia, Pa. | Bruising, beating, cutting, and mincing substances | July 18, 1816 |
| Bills, Artemas | Baltimore, Md. | Churn | July 29, 1816 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Bowhay, William | Philadelphia, Pa. | Dowelling instrument | Oct. 14, 1816 |
| Broadway, Abel | Monson, Mass. | Churn | Nov. 25, 1816 |
| Bliss, Jer. | Somerset, Ct. | Sash work, machine for | June 17, 1817 |
| Baldwin, James | Westfield, Mass. | Planing boards, machine for | Mar. 7, 1818 |
| Bedford, John | Philadelphia | Boots and shoes, nailing on soles of | June 2, 1818 |
| Burnett, James | Providence, R. I. | Washing machine | Sept. 13, 1818 |
| Beissel, David | Harrisburg, Pa. | Machine for cutting sausage meat | Oct. 26, 1818 |
| Burr, James | Johnstown, N. Y. | Leather, machine for finishing | Nov. 24, 1820 |
| Barker, William | Luzerne co., Pa. | Tew iron | Nov. 10, 1818 |
| Blanc, E., and B. H. Latrobe | New Orleans | Sifting sand, lime, &c., machine | April 4, 1818 |
| Belknap, Seth | Newburg, N. Y. | Brick making machine | May 17, 1818 |
| Barron, James | Norfolk, Va. | Washing machine | Dec. 17, 1818 |
| Blair, Sherman | New Haven, Ct. | Sofa, elastic spring | Feb. 2, 1822 |
| Brewer, Henry | New York | Drawers for wearing | Feb. 28, 1822 |
| Brower, William | Ransselaer co., N. Y. | Socks for over shoes | Mar. 6, 1822 |
| Brown, John B., and J. Farmer | Boston, Mass. | Horse shoes | Mar. 11, 1822 |
| Butters, Joshua | Do | Leather, splitting | May 31, 1822 |
| Brown, E., and A. Kirth | Winfield | Churn | June 19, 1822 |
| Bent, William | Philadelphia | Machine for splitting skins | June 17, 1822 |
| Buffum, Arnold | Smithfield, R. I. | Boots and shoes, water proof | Dec. 28, 1822 |
| Bowlin, William | Harrisburg, Va. | Tilt, or trip hammer | July 1, 1823 |
| Blair, Sherman | New Haven | Cushion, elastic spring | Aug. 1, 1823 |

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|---|---|---|---|
| Boyden, Seth | Newark, N. J. | Blinds, &c., for horses | April 10, 1824 |
| Briggs, Nathaniel | New York | Window shutters, fastening | Oct. 21, 1824 |
| Bachelder, James | Lancaster, N. H. | Machine for sharpening currier's knife | Nov. 9, 1824 |
| Bailey, Jeremiah | Philadelphia | Bedstead and bed for the sick and the lame | Mar. 18, 1825 |
| Baird, Abraham | Schoharie co., N. Y. | Churn | Mar. 25, 1825 |
| Bortle, John P. | Claverack, N. Y. | Do | April 19, 1825 |
| Buck, William | Chatham, Ct. | Butter, working and cutting curds machine | Dec. 5, 1825 |
| Bostwick, Sherburn | Thompson, Ohio | Washing machine | Dec. 8, 1825 |
| Brookings, John M. | Wiscasset, Me. | Mortar, moulding, and pressing brick | Jan. 23, 1826 |
| Brown, J., and G. W. Robinson | Providence, R. I. | Window shutters, fire proof | Mar. 16, 1826 |
| Breadsted, Peter | Green co., Ohio | Bedsteads, bisected | Feb. 21, 1826 |
| Barker, William | Kingston, Pa. | Slitting timber | Mar. 25, 1826 |
| Badger, Edwin H. | Petersburg, Va. | Bedstead fastenings | April 3, 1826 |
| Brownson, Abm. | Lockport, N. Y. | Shaving and smoothing wood machine | June 21, 1826 |
| Burton, William, jr. | Annsville, N. Y. | Washing by steam | Aug. 16, 1826 |
| Blood, Asa | Conhocton, N. Y. | Tewel and water back | Oct. 24, 1826 |
| Brooke, Samuel | New York | Bedsteads | Nov. 7, 1826 |
| Bell, William | Lexington, Ky. | Knife, currier's, constructing, &c. | Nov. 13, 1826 |
| Beach, Burroughs | New Milford, Ct. | Washing machine | Nov. 24, 1826 |
| Beach, Cyrus W. | Schoharie, N. Y. | Wheelwright's assistant | Mar. 16, 1827 |
| Bagley, Samuel L. | Hillsdale, N. Y. | Churn | Mar. 24, 1827 |
| Baily, Jer. | Philadelphia | Carpentering, art of | April 7, 1827 |
| Do | Do | Tubs, machine for cutting wood for sides of | April 7, 1827 |
| Beard, David | Buffalo, N. Y. | Washing machine | June 27, 1827 |
| [illegible], Hermon | Salem, Mass. | Stone, dressing, drilling, and cutting | Aug. 3, 1827 |
| [illegible] | Perry, N. Y. | Wooden ware, hollow | July 30, 1827 |
| [illegible] | Wells town'p, Pa. | Churning machine | Jan. 10, 1828 |
| [illegible], Truman | New York | Window shutter fastening | Feb. 19, 1828 |
| [illegible] | Caroline, N. Y. | Washing machine | Mar. 28, 1828 |
| [illegible] | [illegible] Pleasant, N. Y. | Bellows, constructing | [illegible] 3, 1828 |

## LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Brown, William | Frankfort, Pa. | Reel for handling hides | April 17, 1828 |
| Benton, Levi | Hanover, N. Y. | Staves, machine for dressing | July 12, 1828 |
| Bratt, Nicholas | Lockport, N. Y. | Hoops, machine for sawing, improvement on Slayton's | July 31, 1828 |
| Barker, Peter | Worthington, Ohio | Tables, breakfast and dining | Aug. 6, 1828 |
| Bille, Keene A. | New York | Washing, filling, and corking bottles | Nov. 8, 1828 |
| Blodget, Eb. | Watervliet, N. Y. | Washing machine | Dec. 10, 1828 |
| Brownson, Samuel A. | Montrose, Pa. | Leather rolling machine | Dec. 26, 1828 |
| Bayrd, Abel | South Reading, Mass. | Leather and morocco, polishing | Dec. 29, 1828 |
| Beckwith, S., S. Beckwith, jr. & E. Beckwith | Westmoreland, N. Y. | Pegs for shoes, manufacturing | Dec. 27, 1829 |
| Burnap, Caleb B. | Belfast, Me. | Veneers, machine for cutting | May 1, 1829 |
| Bartholomew, Truman | New York | Window shutters, securing | June 30, 1829 |
| Blakeslee, Merrit | Canaan, Ct. | Felloes, bending by steam | July 29, 1829 |
| Barnes, Joel | Cornwall Bridge, Ct. | Shingle machine | Oct. 10, 1829 |
| Barrett, James C. | Collins, N. Y. | Churn | Oct. 19, 1829 |
| Burdick, Aiden | Carroll, N. Y. | Boots, manufacturing | Oct. 31, 1829 |
| Buckenberger, Ant. | New York | Cradle, self moving | Nov. 3, 1829 |
| Berry, Eleazer | Do | Washing machine | May 12, 1829 |
| Brainerd, Roswell | Haddam, Ct. | Washing eclipse | Nov. 23, 1829 |
| Burnwell, Symes | Berlin, Ct. | Doors, machine for closing and shutting | Nov. 25, 1829 |
| Caldwell, James, and Chris Butterman | Albany, N. Y. | Sawing wood and bark | Jan. 26, 1793 |
| Colles, Chris. | New York | Brick making | Jan. 26, 1793 |
| Chickering, Asa W. | Massachusetts | Splitting skins | Nov. 29, 1802 |
| Curtis, James, jr. | Do | Window springs | Dec. 10, 1803 |

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|---|---|---|---|
| Church, Samuel | Amherst, Mass. | Felloes, machine for sawing, &c. | May 4, 1805 |
| Cleaveland, Josiah | Franklin co., Pa. | Washing machine | June 6, 1807 |
| Cutler, Buel | Washington, N. Y. | Churning machine | Oct. 3, 1807 |
| Cleaveland, Dyer | Sheffield, Mass. | Churn | July 7, 1808 |
| Do | Do | Do | July 11, 1808 |
| Cobb, Isaac | Walpole, N. H. | Splitting skins | July 12, 1808 |
| Chamberlain, Sam. | Boston, Mass. | Boots and shoes | Nov. 21, 1808 |
| Chatfield, Orin | Buckington, N. Y. | Washing machine | May 15, 1808 |
| Coppinger, Jos. | Baltimore, Md. | Shingle splitting machine | Oct. 31, 1809 |
| Do | Do | Planing machine | Oct. 31, 1809 |
| Clark, David | West Stockbridge, Ms. | Marble or pipe stone turner | April 9, 1810 |
| Clark, Anson | Do | Marble and stone, cutting and polishing | April 10, 1810 |
| Church, Samuel | Amherst, Mass. | Felloes, cutting and dressing | April 25, 1810 |
| Cooley, Abiel A. | Bolton, Ct. | Shingles, shaving | July 13, 1810 |
| Cannon, George | Nantucket, Mass. | Window springs | Nov. 27, 1810 |
| Cleveland, Lewis | Holliston, Mass. | Churn | Feb. 7, 1811 |
| Carrington, Jona. | Litchfield, Ct. | Scaleboards, machine for cutting | April 27, 1812 |
| Canfield, Russell | Philadelphia | Sawing machine | May 1, 1812 |
| Crease, W. G., and J. Morgan | Philadelphia | Boot, mathematical | July 20, 1812 |
| Coxe, John R. | Do | Bedstead | Oct. 16, 1812 |
| Crain, David | Clarksburg, Va. | Timber, sawing | April 15, 1813 |
| Coleman, John | Baltimore | Polishing and framing cyphering slates | Dec. 31, 1813 |
| Carman, James | Hudson, N. Y. | Buckles, cutting and finishing harness | Oct. 12, 1814 |
| Cooper, Peter | Hempstead, N. Y. | Cradles | Mar. 27, 1815 |
| Cornell, Alvan, & Hiram H. Cornell | Cambridge, N. Y. | Churn | Jan. 15, 1806 |
| Clare, Henry, & Pasquale Ricardo | New York | Pluribus unum, combination of levers, wheels, &c., | May 25, 1816 |
| Craft, George B. | Redstone, Pa., | Sausage machine | Oct. 9, 1819 |
| Crumbacker, Jona. | Union, Md. | Razor straps | Dec. 24, 1819 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Cox, Benjamin | Hadley, Mass. | Washing machine | Aug. 15, 1819 |
| Converse, Elijah | Dalton, O. | Dyewoods, machine for cutting | Jan. 10, 1821 |
| Cantelo, William J. | New York | Corsets | Dec. 31, 1821 |
| Cady, Pascal | Brooklyn, Ct. | Washing machine | Jan. 17, 1822 |
| Clark, Samuel | Morris co., N. J. | Churn | Oct. 4, 1822 |
| Caldwell, Tim. | Philadelphia Pa. | Bricks, fire proof | July 21, 1823 |
| Campbell, Ethan | Do | Clothes, cutting out | Nov. 6, 1823 |
| Conklin, Nathan W. | Jamaica, N. Y. | Saddles, spring | Mar. 27, 1824 |
| Cahoon, William | Winfield, N. Y. | Washing machine | June 15, 1824 |
| Cooper, Isaac | Baltimore, Md. | Bedsteads | Feb. 22, 1825 |
| Conant, Rufus | Lynn, N. H. | Window shades | Sept. 9, 1825 |
| Cooper, Samuel | Chambersburg, Pa. | Bedstead, double tenon draw key | Nov. 5, 1825 |
| Clark, Moses J. | Auburn, N. Y. | Washing machine | Nov. 8, 1825 |
| Culver, Jona. | Norfolk, N. Y. | Shingles, sawing with a gang of saws | Nov. 15, 1825 |
| Collier, Phœbe, widow of James | Catskill, N. Y. | Felloes, sawing | May 20, 1826 |
| Collins, W. H. | Cincinnati, O. | Saddles, constructing | May 27, 1826 |
| Church, S., & H. Clark | Utica, N Y. | Washing machine | July 6, 1826 |
| Crowell, Elisha | Gardiner, Me. | Trip hammer | Aug. 4, 1826 |
| Cantelo, W. J., & R. M. Kerrison | New York | Stock, jubilee | Aug. 30, 1826 |
| Clark, Hez. S. | Randolph co., N. C. | Machine for breaking hides | Dec. 22, 1826 |
| Clark, Elijah B. | Damascus, Pa. | Jointing boards | Jan. 31, 1827 |
| Conillard, Samuel | Boston, Mass. | Leather, dying and polishing | June 27, 1827 |
| Cass, Moses | Caroline, N. Y. | Washer, accelerating | July 29, 1827 |

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|---|---|---|---|
| Comstock, J. L. | Hartford, Ct. | Leather and cloth, water proof | Jan. 21, 1828 |
| Crehore, Benjamin | Milton, Mass. | Veneer saw frame | May 22, 1828 |
| Crandell, Benjamin K. | Lockport, N. Y. | Laths, hoops, &c., machine for slitting | Aug. 25, 1828 |
| Clark, Henry | Brooklyn, Ct. | Collar for dress coats | Nov. 7, 1828 |
| Cushwa, Benjamin | Clear Spring, Md. | Forcing valve piston churn | Jan. 24, 1829 |
| Do | Do | Churn, forcing valve piston | Dec. 24, 1829 |
| Cushman, Alfred | Sumner, Me. | Clay and sand, machine for grinding together | Mar. 3, 1829 |
| Cole, William, and John Johnson | Randolph, Mass. | Door fender, water and snow | Mar. 27, 1829 |
| Copan, John | New York | Screw, right and left, bedstead | June 11, 1829 |
| Clark, James A. | Georgetown, D. C. | Bugs, bed, preventing their ascent, called the night angel | June 13, 1829 |
| Cherry, Enos D. | Auburn, N. Y. | Washing machine and heating water | Sept. 10, 1829 |
| Cooke, William | Southport, N. Y. | Churn, lever power | Dec. 7, 1829 |
| Drake, James | New Jersey | Bellows | May 19, 1794 |
| Dickerson, Jona. | New Jersey | Marble, sawing and polishing | Jan. 9, 1796 |
| Duty, Andrew W. | South Carolina | Tiles, cutting clay for | May 8, 1799 |
| Dean, Daniel S. | New York | Washing machine | Feb. 29, 1804 |
| Dana, Stephen W. | Rutland, Vt. | Do do | Aug. 30, 1808 |
| Devotee, John | Vernon, N. Y. | Churning and washing machine | Dec. 5, 1808 |
| Dotterer, Henry | Philadelphia | Forges, bellows for | Feb. 16, 1809 |
| Dickerman, Hez. | Great Barrington, Ms. | Churn | May 9, 1809 |
| Decatur, Stephen, and William Tatham | | Horse shoes | Oct. 11, 1809 |
| Downer, Elisha | Depeyster, N. Y. | Trip hammer | April 11, 1810 |
| Dotterer, Henry | Philadelphia, Pa. | Bellows, elastic piston | May 1, 1810 |
| Dow, Phineas | Boston, Mass. | Mill, leather splitting | July 12, 1810 |
| Dungan, David | Upperville, Va. | Washing machine | May 23, 1811 |
| Davidson, John | Cheshire, N. H. | Churn, horizontal | April 3, 1812 |
| De Silver, Robert | Philadelphia | Case, extra moveable book binding | Sept. 14, 1812 |
| Denison, Erastus | New Lisbon, N. Y. | Washing machine | Dec. 30, 1812 |
| Drake, Gideon | Windsor, Ct. | Shoemaker | Mar. 14, 1816 |

## LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Dearborn, Benjamin | Boston, Mass. | Lift for bricks and mortar, alternate | June 20, 1816 |
| Donaldson, Alexander | Salem, Mass. | Bungs, machine for cutting | Jan. 15, 1818 |
| Davis, Gideon | Sandy Springs, Me. | Tewel and water back | May 26, 1818 |
| Dwight, Jno. & Sullivan | Boston, Mass. | Stone, sawing | June 17, 1818 |
| Drake, Gideon | Hartford, Ct. | Springs, window | Oct. 26, 1818 |
| Dixon, Peter | Philadelphia | Saddles without saddle trees | July 16, 1819 |
| Duplat, Mark M. | Charleston, S. C. | Privies, constructing | Mar. 16, 1820 |
| Dixon, Peter | Philadelphia, Pa. | Saddles | April 25, 1821 |
| Dana, Aaron | Boston, Mass. | Boots and shoes, water proof | Dec. 31, 1821 |
| Dinwiddie, Jos., and William Dinwiddie | Concord, Va. | Saddles, spring tree | Aug. 8, 1823 |
| Dodge, James, jr. | St. Alban's, Vt. | Bellows nogle, prevent its burning | Jan. 24, 1824 |
| Dewey, Eben | Butternuts, N. Y. | Washing machine | June 24, 1824 |
| Dotterer, Henry | Philadelphia, Pa. | Bellows for furnaces | April 14, 1825 |
| Dillingham, John | Turner, Me. | Doors, locking | June 2, 1825 |
| Deane, Oliver | Walpole, Mass. | Washing machine | Jan. 23, 1825 |
| Durnham, David G. | New Brunswick, N. J. | Do | Dec. 5, 1826 |
| Davis, Samuel | Catskill, N. Y. | Bedstead | Dec. 29, 1826 |
| Daley, Jac. | Baltimore, Md. | Bedstead, portable | May 14, 1827 |
| Dana, George W. | Lowville, N. Y. | Shingle machine | Sept. 20, 1827 |
| Draper, Samuel G. | Camillus, N. Y. | Logs, machine for boring pump | Mar. 31, 1828 |
| Dixon, Jesse | Pittsborough, N. C. | Bellows | June 11, 1827 |
| Duty, Eben, and D. W. Duty | Painsville, O. | Brick machine | June 7, 1828 |
| Davis, Jona. R. | Hartland, N. Y. | Washing machine | Sept. 2, 1828 |

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| Doty, Zuri S. | Groton, N. Y. | Churn | Mar. 17, 1829 |
| Davis, Luther | Northampton, Mass. | Mortising and tenoning machine | April 14, 1829 |
| Dennis, J. T. W. | Paintville, O. | Washing machine | Dec. 16, 1829 |
| Earle, Pliny | Massachusetts | Cards, pricking leather for | Dec. 6, 1803 |
| Eaton, Joseph | Boston, Mass. | Springs, window sash | April 14, 1804 |
| Elliot, Richard R. | Watertown, Mass. | Washing machine | Feb. 28, 1807 |
| Edwards, William | Northampton, Mass. | Hides, machine for softening dry | Dec. 30, 1812 |
| Elliot, Jona. | Newbury, Mass. | Elevator for the use of the sick | Feb. 15, 1812 |
| Earle, Willard | Hubbardston, Mass. | Mill, shingle | Sept. 3, 1813 |
| Eells, Samuel | Connecticut | Boots and shoes, making furred | Feb. 24, 1816 |
| Erving, Jona. | Boston, Mass. | Churn | April 30, 1816 |
| Eversol, Jac. | Botetourt co., Va. | Trip hammer | May 3, 1821 |
| Earle, William | Boston, Mass. | Shingle machine | Dec. 28, 1822 |
| Emmons, Uri, | Greene co., N. Y. | Casks, making | Jan. 8, 1823 |
| Elliot, Catharine | New York | Moccasins, manufacturing | Jan. 26, 1825 |
| Eells, John, jr. | Unadilla, N. Y. | Boots, &c., lasting | Mar. 25, 1825 |
| Eddy, Josiah J. | Providence, R. I. | Bellows, making | Sept. 9, 1825 |
| Ely, Elisha M. | Paris, France | Wafers, leather for gloves, &c., machine for cutting | Jan. 28, 1829 |
| Emmons, Uri | New York | Planing machine, cylindrical | April 25, 1829 |
| Do | Do | Do engine, circular | Sept. 10, 1829 |
| Farrington, Thomas | Boston, Mass. | Wood and bark, sawing | May 9, 1792 |
| French, David | Connecticut | Shingle machine | July 25, 1803 |
| Folger, Label | Hingham, Mass. | Dough, machine for breaking | Nov. 1, 1804 |
| Fulson, W. J., and J. Hayden | Hallowell, Me. | Washing machine | Dec. 17, 1805 |
| Fox, Joel, jr. | Middlesex, Mass. | Hammer, trip | Feb. 25, 1807 |
| Frothingham, Saml., & George Harris | Middletown, Ct. | Leather, striping alum dressed | April 20, 1808 |
| Farnham, Joel | Oswego, N. Y. | Window sash machine | Jan. 7, 1809 |
| Freckman, Timothy | Madison co., N. Y. | Washing machine | June 30, 1809 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Fairbanks, Benjamin | Worcester, Mass. | Churn | Mar. 5, 1810 |
| Fairchild, Reuben, and Eben Fairchild | Fairfield, Ct. | Trees, machine for making saddle | June 1, 1810 |
| Foster, Benj., Daniel Washburn, Northrop Rockwell, and James O. Walker | Castleton, Vt. | Harness, carriage, and saddlery | Aug. 16, 1810 |
| French, Daniel | New York | Brick and tile machine | Aug. 22, 1810 |
| Francis, William | Boston, Mass. | Elastic hair soles for shoes and boots | June 23, 1812 |
| Fuller, Salmon | Indiana Ter. | Shingles, machine for sawing | Nov. 14, 1814 |
| Frazer, William L. | Oxford, N. Y. | Churn | Mar. 19, 1819 |
| Fors, John M. | Baltimore | Strap, razor | Oct. 2, 1821 |
| Finney, Bethniel | Readsborough, Vt. | Sofa, rocking, and easy chair | Nov. 22, 1821 |
| Fairchild, R. & D. | Fairfield, Ct. | Saddle trees | Mar. 6, 1822 |
| Fisher, J. S., & L. W. Talbott | Dedham, Mass. | Dough, kneading | April 23, 1822 |
| Follet, Frs. | Petersburg, Pa. | Window sashes, hanging | Oct. 15, 1822 |
| Foster, Leonard | Boston, Mass. | Windlass bedstead | Feb. 16, 1824 |
| Do | Do | Do do | June 25, 1824 |
| Fraser, Daniel | New York | Doors, preventing from being too tight | Dec. 12, 1825 |
| Foster, Willard | Oswego, N. Y. | Boards, sawing | Jan. 25, 1826 |
| Do | Do | Shingles, do | Jan. 25, 1826 |
| Ferris, Elijah | West Chester, N. Y. | Marble, machine for rubbing and scouring | Mar. 7, 1826 |
| Fish, Ezra | Fayette, Me. | Brick, machine for moulding | June 9, 1826 |
| Fisk, E., & B. Hinkley | Do | Brick and tile machine | Sept. 8, 1827 |

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|---|---|---|---|
| Flagg, David | Gardiner, Me. | Brick machine | Mar. 19, 1828 |
| Fahrney, Samuel | Washington co., Md. | Felloes, sawing or cutting | Dec. 9, 1828 |
| Do | Do | Cutter, sausage | Dec. 9, 1828 |
| Foster, Aaron | Rochester, N. Y. | Dyewood and tan bark cutter, self feeding | Dec. 9, 1828 |
| Foss, Cotton | Perry, Ohio | Churn | June 11, 1829 |
| Gordon, Peter | Philadelphia, Pa. | Boots, manufacturing | Aug. 10, 1791 |
| Godfrey, John W. | Pennsylvania | Bellows for furnace | May 25, 1803 |
| Gilman, Ward, and W. Jackson | Portsmouth, N. H. | Bedstead | Mar. 19, 1804 |
| Gould, John F. | - - - | Brick machine | Mar. 1, 1806 |
| Gould, John F. | - - - | Hammer, trip | Mar. 8, 1806 |
| Green, John | New York | Buckle, mechanical spring | May 20, 1807 |
| Glover, Simeon, and D. Parmelee | Newtown, Ct. | Mortising machine | June 8, 1807 |
| Gould, John F. | Newburyport, Mass. | Brick and tile machine | Oct. 17, 1809 |
| Gray, Simeon | Genesee, N. Y. | Churn | Aug. 17, 1810 |
| Griswold, Chester, and Hosea E. Potter | Otsego, N. Y. | Bark, machine for cutting, softening hides, fulling cloth, and for a grist mill | Nov. 20, 1810 |
| Goulding, Joseph | Leicester, Mass. | Felloes, cutting | Feb. 28, 1811 |
| Do | Do | Hammer, trip | Mar. 1, 1811 |
| Gregg, James | New Hampshire | Brick making | May 7, 1811 |
| Gillet, Nathaniel, and John Smith | Cazenovia, N. Y. | Boring machine | April 8, 1811 |
| Geiger, Paul | Robeson, Pa. | Plaster paris breaking machine | May 12, 1812 |
| Gray, John | Eaton, N. Y. | Washing machine | Feb. 4, 1814 |
| Goodwin, Wm. & Jona. | Lebanon and Mansfield, Ct. | Shaving tanners' bark | Oct. 16, 1814 |
| Greenholt, John | Westminster, Md. | Bench, shoemaker's | June 9, 1818 |
| Goucher, F. | Philadelphia, Pa. | Washing machine | June 15, 1822 |
| Glendening, A. | Butler co., Va. | Do do | Sept. 25, 1822 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Glendening, A. | Loudon co., Va. | Machine for making sausages | Sept. 9, 1824 |
| Do | Do | Flies, machine for killing | Sept. 9, 1829 |
| Greenough, B. L. | Lebanon, N. H. | Felloes, machine for cutting | Dec. 22, 1824 |
| Goddard, Oliver | Bridgeton, Me. | Shingles, sawing | April 6, 1826 |
| Gleason, David, and H. Frisbee | Bethany, N. Y. | Boards, jointing and matching | April 8, 1826 |
| Greer, Thomas | Manlius, N. Y. | Lever power, mortising machine | April 12, 1826 |
| Goulding, John | Dedham, Mass. | Clothes, washing and scouring | July 24, 1827 |
| Greenleaf, Abel, & H. Amidon | Mexico, N. Y. | Mortising machine | Dec. 28, 1827 |
| Gibbs, Eli M. | Chenango co., N. Y. | Washing machine, improvement on Leavitt's | May 1, 1828 |
| Goodall, N., and L. Tainter | Watertown, N. Y. | Barrels, kegs, &c., machinery for making | June 9, 1828 |
| Grout, John | Caroline, N. Y. | Washing and churning machine | Oct. 10, 1828 |
| Goodrich, Charles B. | Rutland, Mass. | Staves, machine for dressing | Feb. 3, 1829 |
| Do | Do | Dresser, revolving stave | Feb. 4, 1829 |
| Gibbs, George B. | Le Raysville, Pa. | Washer and churn | Oct. 10, 1829 |
| Grover, Hosea H. | Auburn, N. Y. | Churn | Nov. 30, 1829 |
| Hawkins, John | New Jersey | Bricks, tile, &c. | July 11, 1797 |
| Hottenstein, William | Pennsylvania | Collars for horses | April 10, 1800 |
| Howard, Dean | Massachusetts | Boots and shoes | April 10, 1800 |
| Hadfield, George | Washington, D. C. | Brick and tile machine | May 15, 1800 |
| Harrison, Thomas O. | New Jersey | Splitting hides and skins | May 19, 1800 |
| Hopkins, Wm. W. | Norfolk co., Va. | Window sashes, hanging | Feb. 24, 1804 |
| Hoover, John | New York | Sash springs | Nov. 19, 1804 |

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|---|---|---|---|
| Heigham, Abm. | Hudson, N. Y. | Washing machine | May 4, 1805 |
| Hodgson, William | Richmond, Va. | Tile and brick making | May 22, 1805 |
| Hinman, John | New Haven, Ct. | Boards, planing machine, and sawing bellows | June 1, 1805 |
| Hawkins, Joseph | Philadelphia, Pa. | Planing machine | Feb. 19, 1806 |
| Harwood, William | Richmond, Va. | Pan tiles | July 3, 1806 |
| Hays, Simeon | Poultney, N. Y. | Churn | Mar. 8, 1808 |
| Howe, Nehemiah | Windham, Ct. | Do | April 25, 1808 |
| Henry, Theron | Bloomfield, N. Y. | Washing machine | July 11, 1808 |
| Hill, Eli F. | Fabius, N. Y. | Do do | Feb. 11, 1809 |
| Hubbel, Ephm. | Middlebury, Vt. | Dyewoods, machine for cutting | June 27, 1809 |
| Hosford, A., & E. Kelsey | Berlin, Ct. | Washing machine and press | June 27, 1809 |
| Harrington, Nathaniel | Whitestown, N. Y. | Churn | Oct. 11, 1809 |
| Hall, Benjamin | Canaan, N. Y. | Boring machine for ship carpenters | Mar. 8, 1810 |
| Do | Do | Borer, mitre point | Mar. 8, 1810 |
| Hunt, Daniel | Stamford, Ct. | Mortar, machine for making | Mar. 22, 1810 |
| Hines, Joseph | Providence, R. I. | Hammer, trip | June 16, 1810 |
| Harris, Joseph B. | Philadelphia, Pa. | Brick or artificial stone without burning | Aug. 21, 1810 |
| Hitchcock, Samuel B., & John Berment | Homer, N. Y. | Boots and shoes, making | July 30, 1811 |
| Heaven, John | Montgomery co., Va. | Shingles, machine for dressing | Mar. 16, 1812 |
| Hitchcock, Cyrus | - - - | Churn | Aug. 7, 1813 |
| Hotchkiss, Josiah | Woodbury, Ct. | Washing machine | June 18, 1813 |
| Hitchcock, Silas | Vernon, N. Y. | Do do | June 25, 1813 |
| Hoadley, Benjamin | Waterbury, Ct. | Shaving woods for various purposes | June 14, 1814 |
| Hall, Joshua | Fredericktown, Md. | Boots and shoes, cutting and forming | Dec. 15, 1815 |
| Hoyt, Thomas R. | Goffstown, N. H. | Clamp for shoemakers | Dec. 6, 1817 |
| Hall, Moses | Charlestown, Mass. | Morocco, dying and finishing | Dec. 31, 1817 |
| Homer, Joseph | New York | Bedstead, portable metallic | Jan. 28, 1818 |
| Holmes, Alanson | Pomfret, N. Y. | Bellows, smith's | Mar. 28, 1818 |
| Hurdle, Noble | Georgetown, D. C. | Catches, rule joint, for window | Oct. 1, 1818 |
| Haywood, Anson | Easton, Mass. | Stand, ink | Nov. 23, 1818 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Hasbrouck, W. M. D., & Jacob Diefenback | Bloomsbury, Pa. | Hides, machine for breaking | Feb. 28, 1819 |
| Hadley, Joseph | Morristown, Vt. | Houses, to secure them from fire, building | Feb. 3, 1819 |
| Harper, William | Nashville, Ten. | Saddle seats, elastic | April 2, 1819 |
| Hendrix, Beardsley | Springfield, N. Y. | Washing machine | May 6, 1819 |
| Hedge, Samuel | Windsor, Vt. | Leather, dying and polishing | July 22, 1819 |
| Hale, John | Hillsborough, N. H. | Churn | Dec. 15, 1819 |
| Hawes, Cyrus | Bennington, Vt. | Square, carpenter's | Dec. 15, 1819 |
| Howard, Eph'm, and Joshua Butters | Boston, Mass. | Leather, splitting | May 3, 1820 |
| Hunt, Ralph | Ontario co., N. Y. | Dowelling heading for coopering | Dec. 11, 1820 |
| Hart, Simeon | Monkton, Vt. | Boots and shoes, by rule, cutting | Mar. 3, 1821 |
| Houck, Jac. | New Market, Md. | Razor strap | Jan. 24, 1822 |
| Hyde, Reuben | Winchester, Mass. | Pales for fencing, machine for making | April 19, 1822 |
| Haden, Benjamin, jr. | Trenton, N. J. | Churn | June 15, 1822 |
| Holmes, Nathaniel | Barnstable, Mass. | Stone, sawing | Jan. 24, 1823 |
| Harry, Peter | Harrisonburg, Va. | Saddle tree and spring girth | Feb. 1, 1823 |
| Herbert, O. R. | Mount Pleasant, N. J. | Bedstead | July 14, 1824 |
| Haight, H., and H. White | Stamford, Ct. | Dyewoods, cutting, machine for | April 11, 1825 |
| Houston, J. P., and O. Bachelder | Bedford, N. H. | Shaving leather | April 11, 1825 |
| Humphrey, Asa | Gray, Me. | Churn | May 9, 1825 |
| Herwick, Charles | New York | Dresses for boys | May 16, 1826 |
| Hill, Benjamin K. | Richmond co., Geo. | Bricks, machine for mixing earth for | Feb. 17, 1827 |

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|---|---|---|---|
| Hawes, Paul | Lockport, N. Y. | Shingles, manufacturing | Mar. 30, 1827 |
| Hills, Luther | Boston | Cork cutter | June 18, 1827 |
| Hoard, George A. | Antwerp, N. Y. | Shingle machine, improvement on Hawes's | Sept. 20, 1827 |
| Harvey, Thomas | Middletown, Del. | Spring, saddle | Jan. 24, 1828 |
| Hyde, Silas | Arcadia, N. Y. | Bedsteads | May 2, 1828 |
| Howe, Stillman, and Charles Chaffin | Holden, Mass. | Shingle machine | May 22, 1828 |
| Hancock, George | Maysville, Ky. | Washing machine | May 24, 1828 |
| Hobert, Rob. E. | Pottstown, | Shoes, horse | May 24, 1828 |
| Hale, John | Oakum, Mass. | Casks, barrels, &c., machinery for making | June 21, 1828 |
| Harrington, Isaac H. | Albany | Currier's knife | June 28, 1828 |
| Hathaway, Jos. | Canandaigua, N. Y. | Churn | Aug. 22, 1828 |
| Hathaway, Jos. & R. | Pultney, N. Y. | Washing machine | Sept. 5, 1828 |
| Holloway, Gooding | Chester, O. | Straps, razor | April 3, 1829 |
| Howe, Thos. | Worcester, Mass. | Boots, measuring and cutting leather for | April 18, 1829 |
| Hinds, Stephen | Montrose, Pa. | Washing machine | April 25, 1829 |
| Howe, Thos. | Worcester, Mass. | Crimper, boot | June 11, 1829 |
| Halderman, Mathieus | Trapp, Pa. | Saddle tree, leather | Oct. 12, 1829 |
| Hayward, Stephen | Plainfield, Mass. | Doors and windows, tightening | Oct. 17, 1829 |
| Hanna, John S. | Mercer, Pa. | Brick machine | Nov. 23, 1829 |
| Jarvis, Bill | New York | Shingles and board machine | July 8, 1797 |
| Johnson, Henry | | Houses, roofs for | May 10, 1802 |
| Jenks, Eben | Canaan, Ct. | Brick, fire | April 18, 1807 |
| Jones, Eb'r | Alfred, Mass. | Washing machine | July 24, 1807 |
| Do | Do | Washing machine, perpendicular | June 28, 1808 |
| Do | Do | Stone, wood, &c.. sawing | June 28, 1808 |
| Jennings, Isaiah | New York | Furnaces, bellows pump for | Sept. 20, 1808 |
| Jones, Luther | Canton, Ct. | Churn | Dec. 10, 1808 |
| Jones, Ezra G. | Otsego, N. Y. | Do | April 21, 1809 |
| Jackman, William | Painsville, O. | Washing machine | Oct. 8, 1810 |
| Jennings, Isaiah | New York | Do do | June 13, 1810 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Judd, Oliver, jr. | Loudon, Mass. | Boards, timber, &c., sawing | May 1, 1810 |
| Jacques, Eliphalet, jr. | Newburyport, Mass. | Washing machine | May 24, 1810 |
| Jackson, James | Burlington, N. Y. | Moccasins, application of hat trimmings to | April 1, 1815 |
| Jones, Nathan | Boston | Powder, pulverising substances to | July 23, 1816 |
| Jordon, John | Rockbridge co., Va. | Window and door frames | April 30, 1817 |
| Jacquith, Josiah | Sherburn, Mass. | Shingle and clapboard sawing machine | June 26, 1817 |
| Justin, James | Pittsburg, Pa. | Washing and grinding | April 19, 1822 |
| Judd, Eb. W. | Middlebury, Vt. | Marble sawing machine | Aug. 14, 1822 |
| Jenckes, John C. | Providence, R. I. | Sick, machine for moving the | May 29, 1823 |
| Jennings, Isaiah | New York | Sofas or sliding joint settees | June 25, 1823 |
| Johnson, Eben | Lexington Height, N.Y. | Hubs, boring and reaming out, and letting boxes into | Nov. 7, 1826 |
| Jackson, William, and J. J. Speed, jr. | Speedville, N. Y. | Mortising and tenoning machine | Oct. 10, 1828 |
| Jacks, W. J. | New York | Bellows for foundries, triangular | April 4, 1829 |
| Jones, Parke | James City co., Va. | Shingle machine | Nov. 12, 1829 |
| Johnson, Joel N. | Fredonia, N. Y. | Do | Dec. 8, 1829 |
| Kuhn, Ludwig C. | Philadelphia | Bedstead | Aug. 10, 1791 |
| Do | Do | Marble, machine for cutting and polishing | Mar. 11, 1791 |
| Kinsley, Apollos | New York | Bricks, tempering mortar for | Feb. 1, 1793 |
| Do | Do | Mortar, tempering for bricks | Dec. 20, 1793 |
| Kilborn, Jona. | Connecticut | Bark, machine for cutting | Aug. 23, 1800 |
| Keeler, Walter, & Jas. Waring | Do | Churn, rocking | June 23, 1802 |
| Kemp, Samuel J. | Norwalk, Ct. | Sashes, springs for window | July 1, 1803 |
| Kersey, Asahel A. | Hartford, Ct. | Shingle machine | Oct. 9, 1805 |

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| King, Nicholas | Washington City, D. C. | Churn, revolving | Mar. 10, 1808 |
| Kennedy, Leond. | Hartford, Ct. | Washing machine | April 26, 1808 |
| King, Elam | Johnstown, N. Y. | Do | May 14, 1808 |
| Kimball, Shubael | Rhinebeck, N. Y. | Do | Aug. 12, 1809 |
| Kneckland, Seth R. | - - - | Beef, machine for cutting smoked | Oct. 9, 1810 |
| Kelley, Zaccheus | Easton, Md. | Mitre machine | April 22, 1812 |
| Kirk, Nathaniel, and Samuel C. Clark | St. Clairsville, O. | Hides, machine for breaking, hairing, &c. | July 18, 1812 |
| Kimball, William, and Samuel Willard | Mount Vernon, N. H. | Boards and scaleboards, machine for planing barge | Oct. 23, 1813 |
| Klasson, Charles | Baltimore | Saddles, spring | May 22, 1816 |
| Keen, Joseph S. | Philadelphia | Stave jointer, double and parallel | Oct. 1, 1816 |
| Kranser, Daniel | Reading, Pa. | Hydes, softening and distending dry | Aug. 18, 1820 |
| Kelley, William & Nathan | Littleton, Mass. | Shoemaker's workstand | Oct. 13, 1820 |
| Kirk, Jos. | Weston, Vt. | Horse frame for shoeing horses, swinging | Nov. 8, 1820 |
| Kenrick, Charles | New York | Waistcoat and pantaloons | Feb. 8, 1822 |
| Keith, A. | Winfield, N. Y. | Skins, splitting | June 19, 1822 |
| Kurtz, Christopher | Lancaster, Pa. | Saddle trees | May 28, 1823 |
| Kneeland, Tim. P. | Ogden, N. Y. | Brick machine, improvement on Lee's | June 21, 1825 |
| Kendall, Wm. | Waterville, Me. | Boards, sawing | Jan. 16, 1826 |
| Kelisey, Franklin | Middletown, Ct. | Washing machine | Sept. 28, 1827 |
| Kiser, David | New York | Leather, water proof, making | Nov. 19, 1827 |
| Kellog, John J. | Richmond, N. Y. | Mortising machine | Jan. 24, 1828 |
| Knowles, Hazard | Colchester, Ct. | Buildings, covering | Oct. 10, 1828 |
| Kilburn, Samuel | Sterling, Md. | Trip hammer, portable | Aug. 18, 1829 |
| Kinower, Samuel | Boston, Mass. | - - - | Sept. 23, 1829 |
| Leslie, Robert | Philadelphia, Pa. | - - - | Feb. 2, 1793 |
| Leach, Caleb | Massachusetts | Pumps, boring | April 13, 1797 |
| Long, William | Connecticut | Sashes, raising window | Nov. 20, 1800 |
| Lillie, William | West Chester, N. Y. | Skins, machine for splitting | Nov. 9, 1805 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Lee, Martin, and T. Barber | Oneida co., N. Y. | Washing machine | Oct. 1, 1807 |
| Lee, Martin | New York | Do do | June 4, 1808 |
| Lister, Eb. | Killingworth, Ct. | Do do | July 11, 1808 |
| Loomis, Dudley, and Ira Wellington | Springfield, N. Y. | Do do | July 11, 1808 |
| Linsey, James | Cazenovia, N. Y. | Timber, sawing circular | Feb. 4, 1809 |
| Lee, Martin | Burlington, N. Y. | Washing machine | June 8, 1809 |
| Lapish, Benj. U. | Durham, N. H. | Churn | Aug. 15, 1809 |
| Loofborrow, Isaac | New York | Washing and scouring machine | June 26, 1810 |
| Lundy, Eleazer | Do | Boot legs, cramping Suwarrow | Aug. 14, 1810 |
| Langdon, Barnabas, & Wm. Mowry | Washington co., N. Y. | Staves and heads of barrels | June 20, 1811 |
| Loomis, John | Geneva, N. Y. | Shingle machine | Dec. 24, 1812 |
| Lane, Joshua | Homer, N. Y. | Washing machine | May 15, 1815 |
| Do | Do | Churn | May 15, 1815 |
| Liddle, William | New Orleans | Biscuit machine | Sept. 21, 1815 |
| Lannay, Peter | Baltimore, Md. | Leather, elastic water proof | Dec. 4, 1816 |
| Little, Jos. | Hillsborough, N. H. | Casks, making | July 25, 1818 |
| Leaming, Saml. M. | Lexington, Ky. | Saddle spring | July 25, 1818 |
| Lloyd, Jos. | Orange co., N. Y. | Churn | Mar. 2, 1819 |
| Laporte, Peter | Louisa co., Va. | Horses, machine for stopping | Mar. 20, 1821 |
| Laporte, Peter | Richmond, Va. | Bridle | Aug. 15, 1822 |
| Leavitt, Isaac | Turner, Maine | Washing machine | Aug. 12, 1823 |
| Lannay, Peter | Baltimore | Beds, mode of warming | Nov. 11, 1823 |

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|---|---|---|---|
| Lewis, Seth | Louisiania | Brick, machine for making | Feb. 11, 1824 |
| Lee, James | Ogden, N. Y. | Brick machine | Mar. 11, 1824 |
| Lee, J., and J. Ring | Do | Do do | June 11, 1825 |
| Lye, Hy. | Philadelphia | Leather, machine for facilitating sewing | Mar. 10, 1826 |
| Le Roy, Simon | Mexico, N. Y. | Machine, mortising | July. 10, 1827 |
| Lemont, Levi P. | Bath, Maine | Cloths, machine called the vanator for cutting | Jan. 9, 1829 |
| Larcom, Amos | Watervleit, N. Y. | Washing machine | Jan. 16, 1829 |
| Leonard, Nathan | Merrimack, N. H. | Boots and shoes, machine for pegging | June 11, 1829 |
| Lindsey, S. | Fredericksburg, O. | | Oct. 21, 1829 |
| Mulliken, Samuel | Philadelphia | Marble, machine for cutting and polishing | Mar. 11, 1791 |
| Mangin, Joseph F. | New York | Marble, sawing and polishing | July 2, 1796 |
| Do | Do | Do do do machine | Feb. 16, 1797 |
| Mansfield, Richard | Connecticut | Brick making | Oct. 28, 1800 |
| Miller, Ez. | New York | Do machine | July 17, 1802 |
| Miller, Nathaniel, and Phil. W. Miller | Massachusetts | Brick and tile machine | Jan. 5, 1804 |
| Miller, Daniel M. | Haddam, N. Y. | Window fastenings | Mar. 8, 1804 |
| Mathews, John | Philadelphia, Pa. | Dyewoods, machine for rasping, sawing, and grinding | Aug. 13, 1805 |
| Mott, Jos. S. | Alburg, Vt. | Planing and jointing machine | Mar. 8, 1806 |
| Mills, Zachariah | Hartford, Ct. | Cradle, swing | July 17, 1806 |
| Mathews, John | Philadelphia | Dyewoods, grinding, sawing, and rasping | Feb. 6, 1807 |
| Millikin, Samuel | Lexington, Mass. | Boot and shoe metallic bottoms | Feb. 10, 1807 |
| Montgomery, Wm. | Philadelphia, Pa. | Boots and shoes | Feb. 11, 1807 |
| McIlvain, Jer. | Chester, Pa. | Shingle and stave machine | April 1, 1807 |
| Moon, Samuel, jr. | Downingtown, Pa. | Churn | Oct. 24, 1808 |
| Millington, Ira | Warren, N. Y. | Do | Mar. 2, 1809 |
| Mirick, Benjamin | Rutland co., Vt. | Harness, carriage | April 21, 1809 |
| Mathews, John | Baltimore, Md. | Clay, machine for tempering | July 6, 1809 |
| McCord, John | Washington, N. Y. | Churn | June 13, 1809 |
| Mosely, David C. | Boston, Mass. | Saddle, spring tree | April 25, 1810 |
| Mumford, Harry | Ulster co., N. Y. | Churn | Mar. 28, 1811 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Morgan, John | Philadelphia | Boots, cutting Cossack | April 10, 1811 |
| McMurtry, Charles | New Malboro', Mass. | Bellows | July 8, 1811 |
| Moore, Nathaniel L. | Smithfield, N. Y. | Boot legs, machine for cramping | Feb. 4, 1812 |
| McDonald, James | New York | Brick machine | April 1, 1812 |
| Morrill, Stephen | Readfield, Mass. | Hammer, trip | Sept. 28, 1812 |
| Morrison, John H. | Boscawen, N. H. | Sawyer, expeditious | Mar. 18, 1814 |
| Miller, Benjamin | Philadelphia, Pa. | Shoes, machine for cutting | May 9, 1814 |
| Meeker, Benjamin | Brooklyn, N. Y. | Beef cutter | Oct. 21, 1815 |
| Mason, Joseph | Cunnington, Mass. | Sock, Columbian | Feb. 8, 1816 |
| Merrith, Oliver | Berkhempstead, Ct. | Shingles, sawing | May 22, 1816 |
| Mitchell, William | Henrico, Va. | Brick machine | June 24, 1816 |
| Munger, George | Cambridge, Md. | Window blinds | Mar. 20, 1817 |
| Mitchell, William | Richmond, Va. | Brick making and clay grinding machine | Mar. 26, 1817 |
| Mead, Nathan, and J. Cutal | Walpole, N. H. | Mortising machine | Nov. 3, 1817 |
| Moon, Samuel | Pr. George's co., Va. | Dough, machine for kneading | Feb. 28, 1818 |
| Mitchell, William | Springhill, Va. | Brick making | May 28, 1818 |
| Mixer, Nathan | Keene, N. H. | Saddle tree springs | May 28, 1818 |
| Meer, John | Philadelphia, Pa. | Book binding | Aug. 26, 1818 |
| Martin, Peter H. | Nashville, Ten. | Saddle seat, elastic | Feb. 23, 1820 |
| Morris, John J. | New York | Saddles, making | Aug. 28, 1821 |
| Mitchell, James | Philadelphia, Pa. | Sugar, machine for breaking | Sept. 11, 1822 |
| Mane, Honore | Point Coupee, La. | Brick moulding machine | Nov. 23, 1822 |
| Miner, Amos | Camillus, N. Y. | Pales for fences | April 25, 1823 |
| Miner, Amos | Elbridge, N. Y. | Window sash, machinery for making | July 9, 1823 |

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| Menefee, John | Landry parish, La. | Brick machine | Aug. 7, 1823 |
| Martin, Eb. | Salem, N. J. | Boot and shoe making | Jan. 12, 1824 |
| Martin, Rob. C. | Philadelphia | Trunks, leather | Aug. 28, 1824 |
| Morris, Ephm. | Bloomfield, N. J. | Dyewood, machine for cutting and chipping | Sept. 27, 1825 |
| McClintic, John | Chambersburg, Pa. | Bedstead, draw key | Nov. 2, 1825 |
| Mitchell, John | Harrisburg, Pa. | Bedsteads, bevelled, grooved, and dovetail joints | Jan. 11, 1826 |
| Mudge, Richard V. | Durham, N. Y. | Washing machine | April 12, 1826 |
| Madison, J. and E., and P. S. Matters | Easton, Pa. | Slates, manufacturing | Dec. 22, 1826 |
| Moorehouse, Samuel | Eastport, Maine | Boot crimper | June 19, 1827 |
| Mann, E., & G. Hill | Rochester, N. Y. | Brick, &c., portable frame for raising | July 21, 1827 |
| McClintic, John | Chambersburg, Pa. | Mortising and tenoning timber | Oct. 8, 1827 |
| McAllister, Archd. | Salem, N. Y. | Marble, cutting, sawing, and polishing | Feb. 18, 1828 |
| McNarry, Isaac | Stafford, Ct. | Window sashes, cast iron | Feb. 23, 1828 |
| Marsh, Wm. E. | Westfield twns'p, N. J. | Mortising machine | April 18, 1828 |
| Marshall, Alex. | Pikeland twns'p, Pa. | Saddle | April 30, 1828 |
| Mitchell, George P. | Burlington, N. J. | Leather, machine for cutting | May 15, 1828 |
| Miller, Henry B. | Mayville, N. Y. | Boot trees | Aug. 25, 1828 |
| McDonald, James, and Robert McQueen, jr. | New York | Brick machine, improvement on McDonald's | Nov. 19, 1828 |
| Mosher, Reuben | Galway, N. Y. | Brick, planing, grooving, cutting boards, and dressing | Jan. 8, 1829 |
| McNeil, John | Coleman towns'p, Pa. | Hammers, hanging forge, called the Clambost | Jan. 21, 1829 |
| McClintic, John | Chambersburg, Pa. | Veneers, slitting tenons, &c. | April 21, 1829 |
| McPharin, Ab. A. | Huntington, Pa. | Bellows, tub | June 11, 1829 |
| Marshall, Samuel | Philadelphia, Pa. | Boots and shoes, cutting | June 23, 1829 |
| Murray, Abner | Athens, N. Y. | Cream and milk, churning | June 27, 1829 |
| Medley, Reuben | Bloomfield, Ky. | Mortising, sawing and boring machine | July 7, 1829 |
| Madison, Otis | Troy, N. Y. | Garments, rule, mathematical, for cutting | Aug. 18, 1829 |
| McOmbre, Richard | Galway, N. Y. | Shingle machine | Oct. 10, 1829 |
| Mosher, Pinkham | Ballston Spa, N. Y. | Washer, Queen's | Oct. 10, 1829 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Morrison, T. & L. | Groton, N. Y. | Churn box | Oct. 16, 1829 |
| Nicholson, Rob. & Thos. | Bairdstown. Ky. | Shingle machine | Dec. 13, 1808 |
| Nicholson, Thomas | Nelson co., Ky. | Churn | Aug. 10, 1809 |
| Noble, Sylvester | Hosick, N. Y. | Washing machine | Feb. 1, 1810 |
| Newell, Daniel | Saratoga, N. Y. | Shingle and stave dressing machine | July 26, 1810 |
| Nixon, Samuel | PrinceGeorge's co., Va. | Kneading dough | Feb. 28, 1818 |
| Neff, George | Pennsylvania | Sausage meat, machine for cutting | Mar. 19, 1811 |
| Norris, S., and J. C. Wood | Philadelphia, Pa. | Shoes, socks, &c. | Jan. 30, 1822 |
| Null, Anthony | Do | Saddle trees | Aug. 29, 1822 |
| Nichols, Henry L. | Middlebury, Ct. | Scaffolds, machine for raising and supporting | April 24, 1824 |
| North, Daniel S., and H. Naranior | Caledonia, N. Y. | Staves, shaving and setting | Nov. 26, 1824 |
| Nagle, Patrick G. | Philadelphia | Boots and shoes, water proof | Dec. 14, 1825 |
| Nicol, George | Madison, Va. | Boot tree screw | Sept. 8, 1826 |
| Nourse, Samuel | Danvers, Mass. | Boots or shoes, mode of holding | Dec. 8, 1827 |
| Osborn, Jacob | Connecticut | Window sash, fastening | Nov. 24, 1803 |
| Olds, Ez. | Brookfield, Mass. | Boards, machine for slitting | June 29, 1808 |
| Osgood, Thomas | Charlestown, Mass. | Washing machine | July 11, 1808 |
| Osgood, Gardner | Madison co., N. Y. | Washing and churning | June 7, 1809 |
| Osborn, David | Berkshire co., Mass. | Churn | Jan. 8, 1810 |
| Osborn, Ezra | Do | Hammer, trip | Jan. 8, 1810 |
| Overman, Benj. | Greensburg, N. C. | Timber, sawing circular | Sept. 15, 1826 |
| Osborn, John W. | Terre Haute, Ind. | Straps, improvement on Jacobs's razor | Jan. 21, 1829 |
| O'Brien, Samuel J. | New York | Churn, labor saving | Jan. 22, 1829 |

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| Olds, Ez., and Pliny Upham | Brookfield, Mass. | Sawing machine | Dec. 26, 1810 |
| Pettibone, Nathaniel | New York | Dough and paste, breaking | Nov. 16, 1797 |
| Parsons, Stephen | Massachusetts | Sashes, window | Nov. 20, 1797 |
| Pierce, Joel | New York | Churning machine | April 10, 1802 |
| Payn, Stephen | | Skins, machine for splitting | Mar. 31, 1806 |
| Pierpont, Daniel | New Haven, Ct. | Churn | April 22, 1808 |
| Patton, Robert | Columbia, Pa. | Washing, churning, and getting out clover seed | June 13, 1808 |
| Paine, Asahel E. | Delhi, N. Y. | Washing machine | July 1, 1808 |
| Parker, Samuel | Billerica, Mass. | Leather, currying and finishing | July 9, 1808 |
| Prescott, Enos | New Marlboro', Mass. | Washing machine | July 11, 1808 |
| Parmele, Dan. | Dutchess co., N. Y. | Churn, rocking | Sept. 8, 1808 |
| Parker, Samuel | | Leather, currying and finishing | Sept. 26, 1809 |
| Pierce, Thomas | Fishkill, N. Y. | Washing machine | June 24, 1809 |
| Perkins, Jacob | Boston, Mass. | Leather, polishing, and graining morocco | June 26, 1809 |
| Perry, Nathaniel | Do | Bureau dressing table | Oct. 13, 1809 |
| Phillips, Rozell | Otsego co., N. Y. | Washing machine | Oct. 14, 1809 |
| Parmele, Henry | Killingworth, Ct. | Mortising machine | Feb. 15, 1810 |
| Parmelee, David | Reading, Ct. | Wheelwright's, carpenter's work, &c., sawing various articles | Oct. 25, 1810 |
| Parson, Seth | Parsonfield, Mass. | Currier's knife | Oct. 25, 1810 |
| Parker, Daniel, & John Sanford | Sharon, Ct. | Shingles, machine for sawing | May 30, 1811 |
| Pratt, Thomas | Cheshire, N. H. | Churn, horizontal vibrating | Sept. 12, 1811 |
| Phinney, Zina | Cairo, N. Y. | Washing and churning machine | June 19, 1812 |
| Palmer, Joseph | Brookfield, N. Y. | Washing machine, facilitating | Aug. 21, 1812 |
| Parker, Samuel | Billerica, Mass. | Leather, splitting and shaving | April 5, 1813 |
| Pope, Samuel | Windsor, Ct. | Cradle | June 15, 1813 |
| Paine, Otis | Foxborough, Mass. | Shingle machine | June 18, 1813 |
| Pumphrey, William | Ohio | Churn | Jan. 5, 1814 |
| Phinney, Zina | Green co., N. Y. | Butter from lard, making | March 4, 1814 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Palmer, Urban | Spencer, N. Y. | Hammer, trip | July 31, 1815 |
| Pinkney, Israel | New York | Boot, cylindrical, cleaner | April 16, 1817 |
| Porter, Nathan | Suffield, Ct. | Churn | April 7, 1818 |
| Peck, Daniel | New York | Boots and shoes, manufacturing | Aug. 14, 1821 |
| Powles, Daniel | Baltimore | Bedsteads | Oct. 31, 1821 |
| Pomeroy, Eb. G. | Lancaster, O. | Boots and shoes, crimping | July 27, 1824 |
| Pool, Daniel | Philadelphia | Crackers, rolling and cutting | Dec. 24, 1824 |
| Pray, E., E. Benjamin and J. S. Stone | Maine | Boards, machinery for sawing clap | Dec. 28, 1824 |
| Parke, L. Z. | Windham, N. Y. | Ware, wooden | June 14, 1825 |
| Prettyman, Thomas G. | Alexandria, D. C. | Saddles | Sept. 30, 1825 |
| Parker, Ephraim | Cheshire co., N. H. | Shingle sawing machine | Dec. 17, 1825 |
| Phillip, John G. | Kinderhook, N. Y. | Mortising rocking | April 12, 1826 |
| Palmer, Freeman | Littleton, N. H. | Currier's knife | Mar. 17, 1826 |
| Powles, Daniel | Baltimore, Md. | Stirrup irons | Jan. 26, 1827 |
| Do | Do | Bedsteads, sackingbottoms, &c. | Jan. 26, 1827 |
| Phillip, John G. | Kinderhook, N. Y. | Churn, rocking | Feb. 15, 1827 |
| Penniman, John R. | Boston, Mass. | Sofa and bedstead united | Aug. 22, 1827 |
| Pierce, E., & J. Hathaway | Pultney, N. Y. | Hammer, foot trip | Oct. 19, 1827 |
| Palmer, Rufus R. | Caroline, N. Y. | Washing and churning machine | Mar. 21, 1828 |
| Pearson, Paul, & John Home | Alna, Me. | Boxes for sugar, making by machinery | April 15, 1828 |
| Parker, Moses P. | Lowville, N. Y. | Washing machine | May 1, 1828 |
| Post, Calvin | Springport, N. Y. | Washing machine, rotary | July 15, 1828 |

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| Price, Isaac, jr. | Lockport, N. Y. | Hoops, laths, staves, &c. | Aug. 19, 1828 |
| Post, Garret | Auburn, N. Y. | Bedstead, revolving rail and round tenon | Oct. 11, 1828 |
| Parkerson, John | Boston, Mass. | Window blinds | Oct. 11, 1828 |
| Paign, Harvey | Alexandria, N. Y. | Leather rolling machine | Dec. 23, 1828 |
| Pratt, Joel B. | Milo, N. Y. | Washing and churning machine | July 14, 1829 |
| Quincy, Abram H. | Boston, Mass. | Inkstands, stone, manufacturing | Sept. 3, 1811 |
| Rumsey, James | Berkeley co., Va. | Bellows | Aug. 26, 1791 |
| Ridgway, David | Philadelphia, Pa. | Bricks, making | Mar. 7, 1792 |
| Richards, George | Stonington, Ct. | Dough, making | Feb. 14, 1806 |
| Reed, Aaron | Columbia co., N. Y. | Churn | April 25, 1808 |
| Reed, Jesse | Boston, Mass. | Dyewoods, machine for rasping, &c. | June 3, 1808 |
| Ross, Asa | Cazenovia, N. Y. | Brick making | Sept. 21, 1808 |
| Ridgway, David | - - | Leather striping machine | Oct. 26, 1809 |
| Ritter, Chris. | Beaver, Penn. | Planing machine | Aug. 11, 1809 |
| Robinson, Rob. | Leesburg, Va. | Washing machine | Nov. 3, 1809 |
| Do | Newburyport, Mass. | Leather, stamping and staining, process and machinery | Mar. 19, 1810 |
| Richards, Rob. W., & Mills Richards | Norfolk, Ct. | Leather pricking machine | April 24, 1810 |
| Roberts, Jesse | Germantown, Pa. | Washing and churning | April 25, 1810 |
| Richards, Jedediah, 3d | Norfolk, Ct. | Dyewoods, machine for cutting | Aug. 13, 1810 |
| Robinson, Daniel | Franklin, N. Y. | Washing machine | Dec. 15, 1810 |
| Do | Do | Churn | May 3, 1811 |
| Richards, Rob. W. | Norfolk, Ct. | Boots and shoes with wooden pegs, screws, &c. | May 23, 1812 |
| Richards, George | Manlius, N. Y. | Bread, machine for making | Feb. 8, 1813 |
| Richardson, Benj. | Western, Mass. | Gauge for trip hammers when plating scythes | May 17, 1814 |
| Reynolds, Jona. | Dutchess co., N. Y. | Tenons, machine for cutting in carriage wheels | June 24, 1815 |
| Raymond, Geo. B., & G. Trumbull | Suffield, Ct. | Joint, carpenter's sliding dovetail | April 23, 1816 |
| Richardson, R. B. | Philadelphia, Pa. | Bellows, japanned | Aug. 22, 1817 |
| Ramsey, Alexander | Do | Sewer, common mouth | Oct. 3, 1820 |
| Rowen, Thomas | Hartford, Ct. | Shoes, wooden pegs for | Nov. 24, 1820 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Reeve, G. F., and J. Ketcham | Orange co., N. Y. | Churning, inclined wheel applied to, by dogs | Aug. 10, 1821 |
| Reed, Briggs R. | Danvers, Mass. | Treading bricks | May 29, 1823 |
| Richards, Rob. W. | Winchester, Ct. | Tubs, pails, kegs, &c. | Jan. 19, 1824 |
| Rose, Hugh M. | Lexington, Ky. | Saddle, double side | June 19, 1824 |
| Rowell, Thomas | Hartford, Vt. | Shoes, pointing, splitting, and waxing pegs for | Feb. 11, 1825 |
| Riply, Ezra | New York | Mortising machine | Dec. 22, 1825 |
| Ross, Greenberry | Carlisle, Ky. | Tailoring, art of | April 5, 1826 |
| Ruggles, Barnabas | Poultney, Vt. | Felloes, sawing wood for | June 29, 1826 |
| Read, Philip P. | Mercer, Me. | Trip hammer | Dec. 7, 1826 |
| Read, Dan. H. | New York | Bridles, manufacturing | Oct. 24, 1826 |
| Rising, David | Atchester, Vt. | Brick machine | Mar. 21, 1827 |
| Rosenkrans, Levi | Urbana, N. Y. | Churn | May 19, 1827 |
| Reed, Charles B. | W. Bridgewater, Mass. | Stone, hewing and hammering | June 27, 1827 |
| Rawlings, George | Philadelphia, Pa. | Cork cutting machine | Oct. 30, 1827 |
| Reihm, Josiah | Savage Factory, Md. | Planing machine | Nov. 1, 1827 |
| Rice, Benjamin | Denmark, N. Y. | Washing clothes and shelling corn | Nov. 23, 1827 |
| Rising, David | Colchester, N. Y. | Brick machine | Jan. 29, 1828 |
| Rosenkrans, Levi | Big Flatt, N. Y. | Hammer, trip | Mar. 17, 1828 |
| Read, Cheney | Western, Mass. | Shingles, sawing | April 2, 1828 |
| Read, Daniel | Slaterville | Churn and washing machine | June 16, 1828 |
| Rice, Levi | Lockport, N. Y. | Laths and other lumber | July 23, 1828 |
| Richards, Jedediah | Elbridge, N. Y. | Window sash, blinds, &c. | Nov. 14, 1828 |
| Rider, Nathaniel | Sturbridge, Mass. | Cooper's work, machine for making all kinds of | April 1, 1829 |
| Reed, Freedus | Pike township, Pa. | Washing and churning machine | June 11, 1829 |

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| Rogers E., & M. Pearon | Essex co., Mass. | Bedsteads | June 11, 1829 |
| Rundle, Thomas | Boston, Mass. | Privies and vaults | Sept. 10, 1829 |
| Robinson, William S. | Taunton, Mass. | Harness, trimmings, and carriage ornaments | Sept. 22, 1829 |
| Rynex, J., John Haskins, & S. Knower | Boston, Mass. | Boots and shoes, perpetual polished water proof | Sept. 23, 1829 |
| Stansfield, James | Virginia | Skins, splitting sheep | Nov. 16, 1796 |
| Stixney, Thomas | Massachusetts | Saddles | Nov. 16, 1797 |
| Stillman, William | Rhode Island | Plough, veneering | Mar. 16, 1801 |
| Stevens, Levi | Connecticut | Churn, machine for top | May 8, 1804 |
| Scott, Isaac | New Haven, Ct. | Window spring | Dec. 26, 1804 |
| Selden, Roger | | Boring machine, perpendicular | July 7, 1806 |
| Scripture, John | Alford, Mass. | Churning machine | Dec. 15, 1807 |
| Stackhouse, Stephen | Cazenovia, N. Y. | Churn | Mar. 11, 1808 |
| Smith, John | Otsego, N. Y. | Hammer, trip | Oct. 14, 1809 |
| Smith, Roger | Norwich, Ct. | Window, spring bolt and key | Mar. 8, 1810 |
| Shriver, David | Petersburg, Pa. | Hoops, machine for shaving out of split timber | Mar. 17, 1810 |
| Sheffield William E. | New York | Felloes, sawing | Dec. 21, 1809 |
| Smith, Roger | Norwich, Ct. | Window, spring bolt and key | Mar. 5, 1810 |
| Smith, Aaron | Tyngsborough, Mass. | Churn | April 11, 1810 |
| Smith, Roger | Norwich, Ct. | Wood, in a circular manner, sawing | April 24, 1810 |
| Sheldon, William, jr. | Springfield, Mass. | Slates, application to various uses | Feb. 28, 1811 |
| Selbey, Jer. | New York | Boot legs, Suwarrow, machine for cramping | April 25, 1811 |
| Stone, Samuel | Enosburg | Dyewood, rasping or sawing | May 3, 1811 |
| Smith, Haziel | Philadelphia, Pa. | Chopper, meat | July 19, 1811 |
| Sheppard, Jos. H. | Canaan, Mass. | Churn | Oct. 1, 1811 |
| Shelbe, Adam | Philadelphia, Pa. | Do | Nov. 27, 1811 |
| Sperry, David | Colchester, Ct. | Hubs and felloes, boring | May 12, 1812 |
| Stanton, William | Lynchburg, Va. | Washing machine | May 12, 1812 |
| Sutherland, John T. | Philadelphia, Pa. | Book binding | July 27, 1812 |
| Smether, Rob. | Orange co., Va. | Bridles | Dec. 10, 1812 |
| Starr, Jehosaphat | Middletown, Ct. | Bread, ship and other | Jan. 8, 1813 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Stiles, Chauncey | Philadelphia, Pa. | Saddle trees | June 28, 1814 |
| Snow, Sullivan | Saco, Me. | Tables, manufacturing | Mar. 2, 1815 |
| Soper, Joel | Windsor, Ct. | Bench, shoemakers' mechanical | Aug. 12, 1815 |
| Seebold, Chris. | New Berlin, Pa. | Washing machine | Feb. 1, 1816 |
| Swift, Beriah | Washington, N. Y. | Dyewoods, machine for rasping and cutting | Feb. 1, 1817 |
| Stewart, Adam | Baltimore, Md. | Veneering, sawing | July 5, 1817 |
| Shepherd, Isaac | Meredith, N. H. | Butter, making | May 28, 1818 |
| Storm, Thomas T. | New York | Churn | May 28, 1818 |
| Stewart, Adam | Baltimore, Md. | Brick making machine | April 8, 1819 |
| Salisbury, Hez., jr. | Brattleborough, Vt. | Window springs | May 24, 1819 |
| Simmons, Samuel | Baltimore, Md. | Cradle and chair rockers | Dec. 21, 1819 |
| Swart, Adam | Saratoga, N. Y. | Churn | April 9, 1821 |
| Stubbs, J. E., and J. Bonner | Cincinnati, Ohio | Brick and tile making | May 10, 1822 |
| Sealy, Richard | New York | Bedbugs, destroying | June 20, 1823 |
| Sternberg, Peter | Danube, N. Y. | Shoes for horses and oxen | April 10, 1824 |
| Sawyer, James | Templeton, Mass. | Shingle machine | May 4, 1824 |
| Staples, John J., and Wm. H. Cornell | New York | Moccasins, making moulds | Dec. 15, 1824 |
| Secor, Elijah | Do | Sign for lottery offices | Feb. 9, 1824 |
| Smith, Richard W. | Baltimore, Md. | Bricks, fire | Sept. 27, 1825 |
| Smith, Junius | London, Eng. | Washing by steam | Jan. 28, 1825 |
| Severson, Stephen | Baltimore, Md. | Garments, measuring for cutting | Mar. 15, 1826 |
| Starr, N. B. | Philadelphia, Pa. | Garments, scale for draughting | July 10, 1826 |
| Sitton, John | Pendleton, S. C. | Wheelwright's assistant | Feb. 15, 1827 |

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|---|---|---|---|
| Stone, Chester | Middlebury, Ct. | Washing machine | Feb. 17, 1827 |
| Sperry, David | Colchester, Ct. | Boring and tenoning machine | Feb. 18, 1827 |
| Spain, Ed. | Mount Holly, N. J. | Churn | April 23, 1827 |
| Streeler, J. H., & J.S. Wilbert | Chili, N. Y. | Mortar machine, and grinding apples | June 12, 1827 |
| Swift, Nathan | Lebanon, Ct. | Shingle sawing machine | April 27, 1827 |
| Simpson, John R. | Boston, Mass. | Sacking, mode for tightening bed | July 10, 1827 |
| Sheldan, Daniel | Pultney, N. Y. | Churn | Sept. 13, 1827 |
| Syms, John | New York | Moccasins, water proof | Nov. 10, 1827 |
| Shute, James D. | Boston, Mass. | Vests, spring stiffener for | Dec. 5, 1827 |
| Slayton, Phineas | Lockport, N. Y. | Hoops, machine for sawing | May 1, 1828 |
| Spain, Ed. | Mount Holly, N. J. | Churn | April 23, 1828 |
| Strann, Abm. | Pennsylvania | Leather, water proof | June 30, 1828 |
| Seely, Holly | Unadilla, N. Y. | Window fastening, self adjusting spring | July 14, 1828 |
| Swift, William, & W. Ottiwell | New Bedford, Mass. | Bedstead fastenings | Oct. 11, 1828 |
| Symington, Thomas | Baltimore, Md. | Slates, machinery for making | Nov. 17, 1828 |
| Sterling, W. G. | Bridgeport, Ct. | Sugar, machine for breaking | Jan. 28, 1829 |
| Stocking, Geo. A. | Aurelius, N. Y. | Washing machine | Sept. 10, 1829 |
| Smith, Amos F. | Salem, Mass. | Saw, veneering | Sept. 10, 1829 |
| Sillibridge, G. R. | New York | Stock, composition hinge | Oct. 10, 1829 |
| Shively, H. | - - - | Washing machine | |
| Saxton, Horace | Paris, N. Y. | Churn | Nov. 6, 1829 |
| Townsend, Wm. W. | Sandy Hill, N. Y. | Churn | Mar. 22, 1808 |
| Townsend, Erastus | Canaan, N. Y. | Do | July 12, 1808 |
| Tucker, Septimus | Dublin, Pa | Washing and wringing machine | Jan. 12, 1809 |
| Thomson, Luther | Sturbridge, Mass. | Churn | June 24, 1809 |
| Thayer, Elijah | Leicester, Mass. | Boots and shoes, manufacturing | Mar. 14, 1812 |
| Truman, James | Philadelphia | Washing machine, called the steam washer | Aug. 21, 1812 |
| Twombly, Ephraim | Norway, Mass. | Iron bound boots and shoes | Aug. 28, 1812 |
| Trumbull, Shadrack | Suffield, Ct. | Window spring bolt | April 23, 1816 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Talbot, Sylvester | Dedham, Mass. | Ruffles, plaiting | May 4, 1816 |
| Treadwell, Ephm. | Essex co., Mass. | Bricks, air conducting for stoves | Sept. 12, 1816 |
| Tyler, Benj. and John | Claremont, N. H. | Bellows, wooden | Feb. 1, 1817 |
| Treadwell, Ephm. | Philadelphia | Bread finisher | Jan. 10, 1820 |
| Tomlinson, Daniel | Brookfield, Ct. | Currier's knife | July 6, 1820 |
| Tillotson, Alfred | New York | Moccasins | Nov. 22, 1823 |
| Taylor, S. W. and J. W. Martin | Lowville, N. Y. | Buildings for school rooms | April 16, 1825 |
| Torrey, Harlow J. | New York | Marble, grooving and beading | Nov. 1, 1825 |
| Do | Do | Do smoothing and polishing, &c. | Nov. 1, 1825 |
| Thurston, Edward | Burlington, Vt. | Washing machine | Mar. 8, 1826 |
| Trask, John | Hadfield, Mass. | Boots and shoes, making | April 5, 1826 |
| Treadwell, Ephm. | New York | Bread, biscuit and sugar | May 18, 1826 |
| Thayer, Elijah | Leicester, Mass. | Boots and shoes, manufacturing | June 9, 1826 |
| Towson, Jos. | Baltimore | Stock | May 14, 1827 |
| Thurber, Hez. | Painted Post, N. Y. | Peg cutting machine | May 22, 1828 |
| Travis, John J. | Franklin, Ct. | Leather belt and picker, preparing | Oct. 22, 1828 |
| Taylor, Caleb | Angola, N. Y. | Planing and grooving machine | Feb. 7, 1829 |
| Taylor, John | Dunstable, N. H. | Washing machine | April 1, 1829 |
| Tomlinson, Peter | Derby, Ct. | Plank, sawing logs into | April 3, 1829 |
| Torrey, Jesse | Germantown, Pa. | Book binding | Aug. 8, 1829 |
| Tilden, Richard S. | Lynchburg, Va. | Houses, covering with tin plate, sheet iron, &c. | Sept. 10, 1829 |
| Toupet, Charles | New York | Feather cleaning machine | Oct. 15, 1829 |
| Thompson, Jonah | Philadelphia | Casks, application of steam to making | Dec. 30, 1829 |
| Votee, George | Berlin, Ct. | Churn | May 10, 1809 |

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|---|---|---|---|
| Van Zandt, Nich. B. | Wash'n City, D. C. | Washing machine | May 21, 1809 |
| Vernon, John | Baltimore, Md. | Boot legs, cutting and making | Oct. 21, 1811 |
| Weld, Ezra | Massachusetts | Washing machine | June 26, 1798 |
| Do | Do | Do | Sept. 17, 1799 |
| Walcott, Benj. S. | Connecticut | Window sash and shutter fastening | Sept. 4, 1802 |
| Wing, Abner | Washington, N. Y. | Churn | May. 26, 1809 |
| Woodsend, Thos. | | Slates for roofing | Aug. 7, 1806 |
| Willard, Simon, jr. | Hudson, N. Y. | Washing machine | April 25, 1807 |
| Willard, Simeon B. | Bloomfield, N. Y. | Churn | May 18, 1808 |
| Wadsworth, Wm. | Hartford, Ct. | Washing machine | Mar. 15, 1808 |
| Winchester, Stephen | Newtown, Ct. | Washing and churning machine | Aug. 31, 1808 |
| Willard, Simon B. | Bloomfield, N. Y. | Floors, scrubbing machine for | Nov. 17, 1808 |
| Worthington, David | Hartford, Ct. | Window sashes, machine for laying out | April 27, 1809 |
| Woodcock, John | Worcester, Mass. | Skins, splitting | May 8, 1809 |
| Wetmore, John | Litchfield, Ct. | Churn | Dec. 8, 1809 |
| Wadsworth, John | Milton, Mass. | Jointer and gauge machine | Feb. 10, 1810 |
| Whiting, Nath. P. | Providence, R. I. | Hides, splitting and shaving | April 25, 1810 |
| Webster, John | Gr. Barrington, Mass. | Boring machine | May 1, 1810 |
| Washburn, Danl., Northorp Rockwell, and James O. Walker | Castleton, Vt. | | Aug. 16, 1810 |
| White, Philip | Worcester, Mass. | Leather and skins, splitting and shaving | Nov. 1, 1810 |
| Walcott, Peter T. | Monmouth co., N. J. | Bedstead, easy draught | Jan. 6, 1812 |
| Woodward, Fred. | New Lisbon, N. Y. | Leather, shaving | July 27, 1812 |
| Whipple, John F. | Easton, N. Y. | Washing machine | June 10, 1813 |
| Wethers, Simon B. | Bloomfield, N. Y. | Stone, sawing, polishing and moulding | Nov. 3, 1813 |
| Webb, Benjamin | Tolland, Ct. | Churn | Aug. 22, 1816 |
| Way, Baruck | Ontario co., N. Y. | Bench, shoemakers' work | June 7, 1817 |
| Watson, Jos. | New Canaan, Ct. | Fetters, horse | Jan. 15, 1818 |
| Wright, Daniel | Franklin, N. Y. | Timber, splitting | Jan. 15, 1818 |
| Walker, Elihu | Aurora, N. Y. | Saddles, making | Nov. 16, 1820 |

LIST OF PATENTEES—COMMON TRADES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Ward, Allen | Huntsville, Ala. | Clothes, cutting out | June 16, 1821 |
| Williamson, Peregrine | Baltimore | Bedsteads | Dec. 6, 1821 |
| West, B., and C. Soper | Rome, N. Y. | Window shutter fastenings | Jan. 31, 1822 |
| Watson, David | Fayette, Me. | Washing machine | Oct. 15, 1822 |
| Williamson, Per. | Baltimore, Md. | Bedstead | Oct. 17, 1822 |
| Wright, Horace | Onondaga, N. Y. | Coopers' work, machinery for | Oct. 23, 1822 |
| Williams, James R. | Baltimore, Md. | Frame for finishing ladies' dresses | Mar. 3, 1824 |
| Wadsworth, J. A. & C. | Portsmouth, R. I. | Selvage, double stitched | Oct. 5, 1824 |
| West, John | Middletown, Ct. | Washing machine | Dec. 14, 1824 |
| Wheeler, Reuben | Vergennes, Vt. | Washing machine, lever | Feb. 26, 1825 |
| Wilkinson, Job. | Pennfield, N. Y. | Boring and mortising machine | May 28, 1825 |
| Waterhouse, Ez. | Gardner, Me. | Churn, double dash | Sept. 29, 1825 |
| White, Lacy | New York | Saddles | Sept. 30, 1825 |
| Whitman, Stephen W. | Madison, O. | Shoes for horses and oxen, cast iron | Nov. 4, 1825 |
| Warren, Admiral | Saugerties, N. Y. | Boring and tenoning machine | April 17, 1826 |
| Watson, David | Fayetteville, Me. | Brick moulding machine | May 6, 1826 |
| Wilkes, George | Fredonia, Ind. | Saddle trees | Nov. 22, 1826 |
| Wilson, James G. | New York | Garments, square for cutting | Feb. 28, 1827 |
| Whitney, Nathan | Augusta, Me. | Churn | May 7, 1827 |
| Wibert, J. S. | Chili, N. Y. | Bellows | June 12, 1827 |
| Wheeler, Oliver | Rochester, N. Y. | Shingles, manufacturing | Nov. 10, 1827 |
| Williams, John | Baltimore, Md. | Stand, wash | Mar. 15, 1828 |
| Waters, Hiram | Watertown, N. Y. | Coopers' work, manufacturing | April 3, 1828 |
| Wilburn, Harvey | Newburyport, Mass. | Bedsteads | June 16, 1828 |
| Willard, Simon, jr. | Cincinnati, O. | Washing machine | Aug. 2, 1828 |

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|---|---|---|---|
| Wilder, Danforth | Rome, N. Y. | Shingle machine | Aug. 25, 1828 |
| Williams, Daniel, jr. | Colchester, Ct. | Doors, constructing | Oct. 11, 1828 |
| Ward, Allen | Philadelphia, Pa. | Ruler, triangular measure case | Oct. 11, 1828 |
| Woodworth, Wm. | Hudson, N. Y. | Planing, grooving, cutting boards, and dressing brick | Dec. 27, 1828 |
| Wade, Elias | Elizabethtown, N. J. | Sausage machine | Jan. 26, 1829 |
| Wood, Jas. | Rockland co., N. Y. | Brick and tile machine | Mar. 3, 1829 |
| Wheeler, Eph'm | Galway, N. Y. | Washer, complete | June 11, 1829 |
| White, Job, and P. Quinby | Belfast, Me. | Veneer and pannel cutting machine | Sept. 12, 1829 |
| Wood, Simeon | Holden, Mass. | Shingle machine | Nov. 10, 1829 |
| Wright, Charles D. | E Haddam, Con. | Washing, eclipse | Nov. 19, 1829 |
| Young, Thomas | Philadelphia, Pa. | Houses, shingling roofs of | May 11, 1807 |
| Young, William | Do | Lasts for boots and shoes | May 20, 1807 |
| Yarwood, Joseph | New Brunswick, N.J. | Washing machine | Mar. 11, 1807 |

## LIST OF PATENTS—WHEEL CARRIAGES.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Alarm for coaches | Walter Hunt | New York | July 30, 1827 |
| Axle trees and boxes | Cyrus Beach | Newark, N. J. | June 26, 1807 |
| Do do diminishing friction of | Robert Kilborn | Gr. Barrington, Mass. | April 12, 1808 |
| Do do machine for greasing | Fred. Beimler | New York | Aug. 22, 1816 |
| Do moveable | George N. Reynolds | Charleston, S. C. | April 29, 1819 |
| Do | Daniel W. Phillips & and Wm. Maher | Middlebury Covington, N. Y. | April 23, 1828 |
| Bodies, Grecian chaise | Phineas Dow | Boston, Mass. | Aug. 15, 1810 |
| Do carriage, called the standing roof landeau | Edward Gibson | New York | May 10, 1811 |

## LIST OF PATENTS—WHEEL CARRIAGES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Bodies, carriage | Henry Dunlap | Georgetown, D. C. | Aug. 27, 1812 |
| Do do and stage | Joseph Smith | Lancaster, Pa. | April 29, 1815 |
| Do do | Jesse Reeder | Lebanon, Ohio | Mar. 4, 1828 |
| Do wagon, raising and lowering | Thomas Scott | Loudon, Pa. | Mar. 3, 1829 |
| Boot spring, box, open packed | Wm. Atchison | New York | May 23, 1815 |
| Boot for stages | Peter Laporte | Augusta co., Va. | July 28, 1828 |
| Boxes for wood or iron to turn in | Wm. Shotwell | New Jersey | Feb. 2, 1800 |
| Do carriages | Thos. B. Whitlock | Do | Feb. 23, 1802 |
| Do carriage wheels | James Gredley | Boston, Mass. | May 23, 1806 |
| Do | Levi Brown | Berkshire, Mass. | May 30, 1806 |
| Do axle trees | Aaron Broad | Salisbury, Ct. | June 14, 1809 |
| Do wheels | John Nicholson | Herkimer, N. Y. | April 28, 1810 |
| Do and axle trees | Wm. Batchelor | New York | May 2, 1816 |
| Do with anti-friction rollers | Wm. Edwards | Baltimore, Md. | Sept. 11, 1817 |
| Do casting | Calvin Darby | Worcester, Mass. | Jan. 22, 1825 |
| Do cast iron | Jer. Wiltse | Chambersburg, Pa. | Dec. 28, 1825 |
| Do self fastening | Thomas Mussey | New London, Ct. | June 11, 1829 |
| Brake wagon, self regulating | Robert Turner | Ward, Mass. | Aug. 29, 1828 |
| Carriages, propelling | J. Staples | New York | April 25, 1794 |
| Do do | William Ferris | Maryland | April 29, 1797 |
| Do constructing | John C. Stroebel | Pennsylvania | Sept. 19, 1803 |
| Do | Stephen W. Dana | Rutland, Vt. | Aug. 30, 1808 |
| Do suspending pleasure | Joseph Henderson | Guilford, Ct. | Dec. 26, 1808 |
| Do | William Ross | New York | Jan. 14, 1809 |
| Do manual, four wheel | Lyman Cook | Whitestown, N. Y. | Mar. 28, 1811 |

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|---|---|---|---|
| Do steam | Charles Reynolds | East Windsor, Ct. | Aug. 21, 1811 |
| Do construction of | Daniel Neall | Milford, Del. | Feb. 26, 1812 |
| Do hand | Daniel Nine, jr. | Reading, Pa. | May 4, 1813 |
| Do | Benjamin Peck | Philadelphia, Pa. | July 5, 1814 |
| Do | Horatio G. Spafford | Albany, N. Y. | Nov. 25, 1814 |
| Do hanging, and placing steps by the side | John J. Wells | Hartford, Ct. | Jan. 24, 1815 |
| Do | Benjamin Hale | Newburyport, Mass. | Oct. 4, 1817 |
| Do | John B. Swann | Albany, N. Y. | Sept. 29, 1818 |
| Do travelling | George H. Richards | New London, Ct. | July 8, 1821 |
| Do | John B. Swann | Albany, N. Y. | July 24, 1823 |
| Do steam | Lewis Bigelow | Petersham, Mass. | Aug. 29, 1823 |
| Do | Bernard J. Malfeason | Burlington, N. J. | April 6, 1824 |
| Do steam | Edward Clarke | New York | Sept. 9, 1825 |
| Do calash top | George Holloway | Baltimore, Md. | Sept. 9, 1825 |
| Do regulating the speed of | Thomas Blanchard | Springfield, Mass. | Dec. 28, 1825 |
| Do retarding, descending hills | Ezra Slifer | Boonsborough, Md. | Jan. 16, 1826 |
| Do | Wm. and Josiah Jessup | Guilford co., N. C. | June 1, 1827 |
| Bo | Theo. Brooks and D. W. Eames | Rutland, N. Y. | Dec. 6, 1827 |
| Do | Thomas Knox | Sniggersville, Va. | Mar. 15, 1828 |
| Do safety, double axle tree | Edward G. Fitch | Blakely, Ala. | Feb. 7, 1829 |
| Do propelling | Milton F. Colburn | Baltimore, Md. | April 7, 1829 |
| Coaches and other carriages | Fred. Bremler | New York | April 24, 1810 |
| Do | Do | Do | Jan. 21, 1812 |
| Do | Benjamin Hale | Newburyport, Mass. | Jan. 17, 1818 |
| Do mail | Simeon Draper | Brookfield, Mass. | Aug. 30, 1819 |
| Do post and other | Richard Ward | Schenectady, N. Y. | June 2, 1825 |
| Cross cramp for four wheel carriages | Simeon Glover | Newtown, Ct. | May 4, 1805 |
| Curtains or blinds, hanging in coaches | Peter Harvey | Philadelphia, Pa. | May 9, 1807 |
| Gig, fall top | John Eberts | Do | Sept. 8, 1815 |
| Horses, "danger 'scape," to disengage them from carriages | William Start | Greensborough, Md. | May 3, 1816 |

## LIST OF PATENTS—WHEEL CARRIAGES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Hubs, machine for dividing and boring | James B. Cleveland | Bergen co., N. J. | June 7, 1809 |
| Do carriage or gig, bands | Christian Cornelius | Philadelphia, Pa. | June 18, 1824 |
| Do cast iron | Benjamin Lyman | Manchester, Ct. | Oct. 29, 1825 |
| Do blocks, &c., bushing | T. & D Curtis | Washington, D. C. | Jan. 23, 1826 |
| Do | Garretson Lyon | New York | Dec. 28, 1826 |
| Do cast iron | Benjamin Lyman | Manchester, Ct. | Nov. 6, 1827 |
| Do Herculean carriage | Hercules Thomas | Medway, Mass. | Feb. 8, 1828 |
| Do cast iron | William Dickinson | Batavia, N. Y. | Oct. 11, 1828 |
| Do and axle trees | Phineas Slayton | Lockport, N. Y. | Oct. 27, 1828 |
| Do | Hercules Thomas | Middleborough, Mass. | Sept. 11, 1829 |
| Life preserver | Henry G. De Grandval | Portsmouth, N. H. | Oct. 3, 1817 |
| Lock, wagon | George Divan | Franklin co., Pa. | April 14, 1828 |
| Do do | John M. Davidson | Brownsville, Pa. | Dec. 31, 1828 |
| Mail bags | Abm. L. Pennock & J. Sellers | Philadelphia, Pa. | July 6, 1818 |
| Do | Peter Laporte | Richmond, Va. | May 5, 1824 |
| Moulds for running boxes | Samuel Smith, 2d | Amherst, Mass. | Oct. 17, 1809 |
| Do casting boxes | Leon'd Tazewell | Lancaster, Mass. | Mar. 5, 1810 |
| Do do | Samuel Smith, 2d | Amherst, Mass. | July 6, 1810 |
| Poles and leading bars | Lucius W. Stockton | Uniontown, Pa. | Sept. 29, 1825 |
| Rollers for springs of pleasure wagons | John Barton, jr. | Providence, R. I. | Sept. 9, 1825 |
| Sleigh runners | Abijah Wilder | New Hampshire | Dec. 14, 1799 |
| Do traverse | Levi Rogers | Berwick, Mass. | Feb. 4, 1807 |
| Do | Aug. Day | Bordentown, N. J. | Jan. 19, 1811 |
| Do shoes, steel plated | Sermon Hunt | Canaan, Ct. | Dec. 30, 1813 |

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| Do do cast iron, on wrought iron rods | Sylvanus Tousley | Manlius, N. Y. | Feb. 7, 1815 |
| Do sleds, &c., shoeing | William Barton | New York | Dec. 13, 1820 |
| Do | Jac. Fisher | Kennebec, Me. | Dec. 30, 1820 |
| Do shoes | Seneca Pettee | Salisbury, Ct. | Oct. 1, 1822 |
| Do do cast iron | Edw. Trask | Sangerfield, N. Y. | Oct. 6, 1827 |
| Do do do | Ichabod Arnold | Oswegatchie, N. Y. | Mar. 12, 1828 |
| Splinter bar and swingle trees | Hy. Dunlap | Georgetown, D. C. | April 23, 1807 |
| Springs for carriages | William King and H. Salisbury | Hartford, Ct. | Aug. 29, 1805 |
| Do main | Jona. Mix | New Haven, Ct. | April 18, 1807 |
| Do | Enoch Ives and Jerry Hill | Do | June 3, 1808 |
| Do | Jona. Mix | Do | June 17, 1808 |
| Do folding or spiral for carriages | James Armour, jr. | Baltimore, Md. | June 27, 1808 |
| Do thorough brace | Jona. Mix | New Haven, Ct. | June 30, 1808 |
| Do | Joshua Cone | Reading, Ct. | Aug. 26, 1808 |
| Do wooden | William Robinson | Wilmington, Del. | Nov. 27, 1810 |
| Do do horizontal | Leonard Somner | Downington, Pa. | July 22, 1811 |
| Do do | Luke H. Thrall | Troy, N. Y. | Nov. 10, 1813 |
| Do | Rd. Humphries and I. C. Humphries | Cantwell's Bridge, Del. | April 22, 1814 |
| Do do | Levin Birckhead | Philadelphia, Pa. | Dec. 30, 1814 |
| Do do | James Greenwood | New Castle, Del. | April 28, 1818 |
| Do do | James Clark | Kent co., Del. | July 31, 1818 |
| Do | Mich. H. Burnwill | Canterbury, Del. | Nov. 17, 1818 |
| Do | Geo. N. Reynolds | Charleston, S. C. | April 30, 1819 |
| Do seat for carriages | Jona. Nichols | Providence, R. I. | Oct. 2, 1822 |
| Do | Lemuel H. Parsons | Stockbridge, Mass. | June 23, 1824 |
| Do traverse | Nathan A. Stoddard | Pawlet, Vt. | April 2, 1825 |
| Do for wagons | Hazard Noles | Colchester, Ct. | Nov. 4, 1825 |
| Do do | Walter Janes | Ashford, Ct. | June 6, 1826 |

## LIST OF PATENTS—WHEEL CARRIAGES—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Spring seats for wagons | Schuyler Reynolds | New York | July 17, 1829 |
| Trace and bar, elastic, by connected springs | Benj. Giddins | Baltimore, Md. | Dec. 10, 1808 |
| Stages, mail | Daniel W. Eames | Watertown, N. Y. | May 8, 1823 |
| Velocipede | Wm. K. Clarkson, jr. | New York | June 26, 1819 |
| Do chiro | Gideon Barker | Providence, R. I. | Nov. 1, 1825 |
| Wagon, hand | John Bolton, jr. | New York | Sept. 29, 1804 |
| Do tilting | Abm. Hobart | Braintree, Mass. | Feb. 17, 1807 |
| Do | Sherman Blair | New Haven, Ct. | June 20, 1823 |
| Wheels, iron | Robert Crane, jr. | Woodbury, Ct. | May 4, 1805 |
| Do | John Coon | Granville, N. Y. | Aug. 6, 1808 |
| Do reverting | Otis Paine | Foxborough, Mass. | Mar. 1, 1811 |
| Do | Melsor Hunt and C. White | Hartford, Mass. | June 15, 1813 |
| Do | Bracket L. Greenough | Lebanon, N. H. | Sept. 12, 1815 |
| Do tiring | Russell Hunt, 2d | Litchfield, Ct. | Mar. 20, 1821 |
| Do | John Whitaker | Dingman's Ferry, Pa. | June 24, 1822 |
| Do | William Cooper | Columbia, S. C. | Mar. 3, 1825 |
| Do | George D. Bridgman | New Haven, Ct. | July 16, 1829 |

## LIST OF PATENTEES—WHEEL CARRIAGES.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Atchison, William | New York | Boot spring, box, open jack | May 23, 1815 |
| Arnold, Ichabod | Oswegatchie, N. Y. | Sleigh shoes, cast iron | Mar. 12, 1828 |
| Armour, James, jr. | Baltimore, Md. | Springs for carriages, folding or spiral | June 27, 1808 |
| Beach, Cyrus | Newark, N. J. | Axle trees and boxes | June 26, 1807 |
| Beimler, Fred. | New York | Do machine for greasing | Aug. 22, 1816 |
| Brown, Levi | Berkshire, Mass. | Boxes | May 30, 1806 |
| Broad, Aaron | Salisbury, Ct. | Do for axle trees | June 14, 1809 |
| Batchelor, William | New York | Do and axle trees | May 2, 1816 |
| Bigelow, Lewis | Petersham, Mass. | Carriages, steam | Aug. 29, 1823 |
| Blanchard, Thomas | Springfield, Mass. | Do regulating the speed of | Dec. 28, 1825 |
| Brooks, Theo., and D. W. Eames | Rutland, N. Y. | Do | Dec. 6, 1827 |
| Bremler, Fred. | New York | Coaches and other carriages | April 24, 1810 |
| Do | Do | Do | Jan. 21, 1812 |
| Barton, John, jr. | Providence, R. I. | Rollers for springs of pleasure wagons | Sept. 9, 1825 |
| Barton, William | New York | Sleighs, sleds, &c., shoeing | Dec. 13, 1820 |
| Birckhead, Levin | Philadelphia, Pa. | Springs, wooden | Dec. 30, 1814 |
| Burnwill, Michael H. | Canterbury, Del. | Do | Nov. 17, 1818 |
| Barker, Gideon | Providence, R. I. | Velocipede, chiro | Nov. 1, 1825 |
| Bolton, John, jr. | New York | Wagon, hand | Sept. 29, 1804 |
| Blair, Sherman | New Haven, Ct. | Do | June 20, 1823 |
| Bridgman, Geo. D. | Do | Wheels | July 16, 1829 |
| Cook, Lyman | Whitestown, N. Y. | Carriages, four wheel, manual | Mar. 28, 1811 |
| Clarke, Edward | New York | Do steam | Sept. 9, 1825 |
| Colburn, Milton F. | Baltimore, Md. | Do propelling | April 7, 1829 |

LIST OF PATENTEES—WHEEL CARRIAGES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Cleaveland, James B. | Bergen co., N. J. | Hubs, machine for dividing and boring | June 7, 1809 |
| Cornelius, Christian | Philadelphia, Pa. | Do carriage or gig bands | June 18, 1824 |
| Curtis, T. and D. | Washington, D. C. | Do blocks, &c., bushing | Jan. 23, 1826 |
| Cone, Joshua | Reading, Ct. | Springs | Aug. 26, 1808 |
| Clarke, James | Kent co., Del. | Do wooden | July 31, 1818 |
| Clarkson, Wm. K. jr. | New York | Velocipede | June 26, 1819 |
| Crane, Robert, jr. | Woodbury, Ct. | Wheels, iron | May 4, 1805 |
| Coon, John | Granville, N. Y. | Do | Aug. 6, 1808 |
| Cooper, William | Columbia, S. C. | Do | Mar. 3, 1825 |
| Dow, Phineas | Boston, Mass. | Bodies, Grecian chaise | Aug. 15, 1810 |
| Dunlap, Henry | Georgetown, D. C. | Do carriage | Aug. 27, 1812 |
| Darby, Calvin | Worcester, Mass. | Boxes, casting | Jan. 22, 1825 |
| Dana, Stephen W. | Rutland, Vt. | Carriages | Aug. 30, 1808 |
| Draper, Simeon | Brookfield, Mass. | Coaches, mail | Aug. 30, 1819 |
| Dickinson, Wm. | Batavia, N. Y. | Hubs, cast iron | Oct. 11, 1828 |
| De Grandval, Henry | Portsmouth, N. H. | Life preserver | Oct. 3, 1817 |
| Divan, George | Franklin co., Pa. | Lock, wagon | April 14, 1828 |
| Davidson, John M. | Brownsville, Pa. | Do do | Dec. 31, 1828 |
| Day, Augustus | Bordentown, N. J. | Sleigh | Jan. 19, 1811 |
| Dunlap, Henry | Georgetown, D. C. | Splinter bar and swingle trees | April 23, 1807 |
| Edwards, Wm. | Baltimore, Md. | Boxes with anti-friction rollers | Sept. 11, 1817 |
| Eberts, John | Philadelphia, Pa. | Gig, fall top | Sept. 8, 1815 |
| Eames, Daniel W. | Watertown, N. Y. | Stages, mail | May 8, 1823 |
| Faris, Wm. | Maryland | Carriages, propelling | April 29, 1797 |
| Fitch, Edward G. | Blakely, Ala. | Do double axletree, safety | Feb. 7, 1829 |

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|---|---|---|---|
| Fisher, Jac. | Kennebec, Me. | Sleigh | Dec. 30, 1820 |
| Gibson, Edward | New York | Carriage bodies, called the standing roof landeau | May 10, 1811 |
| Gridley, James | Boston, Mass. | Boxes for carriage wheels | May 23, 1806 |
| Glover, Simeon | Newtown, Ct. | Cross cramp for four wheel carriages | May 4, 1805 |
| Greenwood, James | New Castle, Del. | Springs, wooden | April 28, 1818 |
| Giddins, Benjamin | Baltimore, Md. | Trace and bar, elastic, by connected springs | Dec. 10, 1808 |
| Greenough, Bracket L. | Lebanon, N. H. | Wheels | Sept. 12, 1815 |
| Hunt, Walter | New York | Alarm for coaches | July 30, 1827 |
| Henderson, Jos. | Guilford, Ct. | Carriages, suspending pleasure | Dec. 26, 1808 |
| Hale, Benjamin | Newburyport, Mass. | Do | Oct. 4, 1817 |
| Halloway, George | Baltimore, Md. | Do calash top | Sept. 9, 1825 |
| Hale, Benjamin | Newburyport, Mass. | Coaches | Jan. 17, 1818 |
| Harvey, Peter | Philadelphia, Pa. | Do hanging curtains or blinds in | May 9, 1807 |
| Hunt, Sermon | Canaan, Ct. | Shoes, steel plated sleigh | Dec. 30, 1813 |
| Humphries, Richard, & Israel C. Humphries | Cantwell's Bridge, Del. | Springs | April 22, 1814 |
| Hobart, Abm. | Braintree, Mass. | Wagon, tilting | Feb. 17, 1807 |
| Hunt, Melzor and Cotton White | Hartford, Mass. | Wheels | June 15, 1813 |
| Hunt, Russell, 2d | Litchfield, Ct. | Do tiring | Mar. 20, 1821 |
| Jessop, Wm. & Josiah | Guilford co., N. C. | Carriages | June 1, 1827 |
| Ives, Enoch, & Jerry Hill | New Haven, Ct. | Springs, main | June 3, 1808 |
| Janes, Walter | Ashford, Ct. | Do for wagons | June 6, 1826 |
| Kilborn, Rob. | Gr. Barrington, Mass. | Axletrees, diminishing friction of | April 12, 1808 |
| Knox, Thos | Sniggersville, Va. | Carriages | Mar. 15, 1828 |
| King, Wm., & Henry Salisbury | Hartford, Ct. | Springs for carriages | Aug. 29, 1805 |
| Knowles, Hazard | Colchester, Ct. | Do for wagons | Nov. 4, 1825 |
| Laporte, Peter | Augusta co., Va. | Boot for stages | July 28, 1828 |
| Lyman, Benjamin | Manchester, Ct. | Hubs, cast iron | Oct. 29, 1825 |

## LIST OF PATENTEES—WHEEL CARRIAGES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Lyon, Garretson | New York | Hubs | Dec. 28, 1826 |
| Lyman, Benjamin | Manchester, Ct. | Do cast iron | Nov. 6, 1827 |
| Laporte, Peter | Richmond, Va. | Mail bags | May 5, 1824 |
| Mussey, Thomas | New London, Ct. | Boxes, self fastening | June 11, 1827 |
| Malfearson, Bernard J. | Burlington, N. J. | Carriages | April 6, 1824 |
| Mix, Jona. | New Haven, Ct. | Springs, main | April 18, 1807 |
| Do | Do | Do do | June 17, 1808 |
| Do | Do | Do thorough brace | June 30, 1808 |
| Nicholson, John | Herkimer, N. Y. | Boxes for wheels | April 28, 1810 |
| Neall, Daniel | Milford, Del. | Carriages, construction of | Feb. 26, 1812 |
| Nine, Daniel | Reading, Pa. | Do hand | May 4, 1813 |
| Nichols, Jona. | Providence, R. I. | Spring seat for carriages | Oct. 2, 1822 |
| Phillips, Daniel W. | Middlebury | Axle | April 23, 1828 |
| William Maker | Covington, N. Y. | | |
| Peck, Benjamin | Philadelphia, Pa. | Carriages | July 5, 1814 |
| Pennock, Abm. L., & J. Sellers | Richmond, Va. | Mail bags | July 6, 1818 |
| Pettee, Seneca | Salisbury, Ct. | Sleigh shoes | Oct. 1, 1822 |
| Parsons, Lemuel H. | Stockbridge, Mass. | Springs | June 23, 1824 |
| Paine, Otis | Foxborough, Mass. | Wheels, reverting | Mar. 1, 1811 |
| Reynolds, George N. | Charleston, S. C. | Axle, moveable | April 29, 1819 |
| Reeder, Jesse | Lebanon, O. | Bodies, carriage | Mar. 4, 1828 |
| Ross, William | New York | Carriages | Jan. 14, 1809 |
| Reynolds, Charles | E. Windsor, Ct. | Do steam | Aug. 21, 1811 |
| Richards, George H. | New London, Ct. | Do travelling | July 8, 1821 |

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|---|---|---|---|
| Rogers, Levi | Berwick, Mass. | Sleigh, traverse | Feb. 4, 1807 |
| Robinson, Wm. | Wilmington, Del. | Springs, wooden | Nov. 27, 1810 |
| Reynolds, George N. | Charleston, S. C. | Do | April 20, 1819 |
| Reynolds, Schuyler | New York | Do seat for wagons | July 17, 1829 |
| Smith, Jos. | Lancaster, Pa. | Bodies, carriage and stage | April 29, 1815 |
| Scott, Thomas | Loudon, Pa. | Do raising and lowering wagon | Mar. 3, 1829 |
| Shotwell, William | New Jersey | Boxes, for wood or iron to turn in | Feb. 2, 1800 |
| Staples, J. | New York | Carriages, propelling | April 25, 1794 |
| Strobel, John C. | Pennsylvania | Do constructing | Sept. 19, 1803 |
| Spafford, Horatio G. | Albany, N. Y. | Do | Nov. 25, 1814 |
| Swann, John B. | Do | Do | Sept. 29, 1818 |
| Do | Do | Do | July 24, 1823 |
| Slifer, Ezra | Boonsboro', Md. | Do retarding, descending hills | Jan. 16, 1826 |
| Start, Wm. | Greensboro', Md. | Horses, "danger scape," to disengage them from carriages | May 3, 1816 |
| Slayton, Phineas | Lockport, N. Y. | Hubs and axletrees | Oct. 27, 1828 |
| Smith, Samuel, 2d | Amherst, Mass. | Moulds for running boxes | Oct. 17, 1809 |
| Do | Do | Moulds for casting boxes | July 6, 1810 |
| Stockton, Lucius W. | Uniontown, Pa. | Poles, and leading bars | Sept. 29, 1825 |
| Somner, Leonard | Downingtown, Pa. | Springs, horizontal wooden | July 22, 1811 |
| Stoddard, Nathan A. | Pawlet, Vt. | Do traverse | April 2, 1825 |
| Turner, Robert | Ward, Mass. | Brake, wagon, self regulating | Aug. 29, 1828 |
| Thomas, Hercules | Medway, Mass. | Hubs, Herculean carriage | Feb. 8, 1828 |
| Do | Middleborough, Mass. | Do | Sept. 11, 1829 |
| Tazewell, Leond. | Lancaster, Mass. | Moulds for casting boxes | Mar. 5, 1810 |
| Tousley, Sylvanus | Manlius, N. Y. | Sleigh shoes, cast iron, on wrought iron rods | Feb. 7, 1815 |
| Trask, Edward | Sangerfield, N. Y. | Do do | Oct. 6, 1827 |
| Thrall, Luke H. | Troy, N. Y. | Springs, wooden | Nov. 10, 1813 |
| Whitlock, Thos. B. | New Jersey | Boxes for carriages | Feb. 23, 1802 |
| Wiltse, Jer. | Chambersburg, Pa. | Boxes, cast iron | Dec. 28, 1825 |
| Wells, John J. | Hartford, Ct. | Carriages, hanging and placing steps by the side | Jan. 24, 1815 |
| Ward, Rd. | Schenectady, N. Y. | Coaches, post and other | June 2, 1825 |

## LIST OF PATENTEES—WHEEL CARRIAGES—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Wilder, Abijah - | New Hampshire - | Sleigh runners - - - - - | Dec. 14, 1799 |
| Whitaker, John - | Dingman's Ferry, Pa. | Wheels - - - - - - | June 24, 1822 |

## LIST OF PATENTS—HYDRAULICS.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Aqueduct of water proof lime - - - | John M. Benham - | Bridgewater, N. Y. - | Aug. 29, 1827 |
| Boxes, pump - - - - - - | John Stickney - | Baltimore, Md. - | May 1, 1804 |
| Do metallic single valve - - - | Isaac Scott - - | Boston, Mass. - | May 2, 1817 |
| Do elliptical valve - - - - | Jas. Baker - - | Charlestown, Mass. - | May 9, 1817 |
| Do - - - - - - | Israel P. Williams & S. G. Rea - | Salem, Mass. - | Dec. 9, 1828 |
| Bucket, well, emptying - - - - | Elijah Willard - | Egremont, Mass. - | June 15, 1826 |
| Do pump - - - - - - | David Coon - - | Mendon, N. Y. - | Nov. 28, 1829 |
| Cock, stop - - - - - - | Peter Walker - | New York - - | April 10, 1800 |
| Do water - - - - - - | George Youle - | Do - - | Aug. 25, 1803 |
| Do or lock for the passage of fluids - - - | Joshua Witherle - | Boston, Mass. - | Jan. 16, 1811 |
| Do stop - - - - - - | Daniel Sharman - | Warren, N. Y. - | July 5, 1814 |
| Do - - - - - - | John Morris - | Hartford, Ct. - | Mar. 1, 1815 |
| Do block tin - - - - - | Do - - | Do - - | Mar. 7, 1816 |

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|---|---|---|---|
| Do water | Eb. Hubball | Baltimore, Md. | Oct. 4, 1820 |
| Do valve | John Cluley & Benj. Stancliffe | Philadelphia, Pa. | Nov. 8, 1820 |
| Do | Fred. D. Samno | Do | June 29, 1821 |
| Do for drawing liquor | Jona. Bliss | New York | Sept. 24, 1821 |
| Do metallic screw | Jer. Garey | Baltimore, Md. | April 23, 1822 |
| Do stock | John Morris | New Haven, Ct. | May 15, 1822 |
| Do piston and valve | John Lacey | Philadelphia, Pa. | May 6, 1823 |
| Do stop | Gaines Fenn | New York | July 12, 1823 |
| Do | Eli Dickinson | Amherst, Mass. | Dec. 17, 1823 |
| Do valve for hydrants | Benj. Stancliffe | Philadelphia, Pa. | May 15, 1827 |
| Conduit, clay | Samuel Bartlett | Hartford, Ct. | Jan. 15, 1809 |
| Engine, fire | Jesse Kersey | Pennsylvania | April 13, 1797 |
| Do screw, water | Elijah Ormsbee | Rhode Island | Mar. 21, 1798 |
| Do water | Samuel Morey | New Hampshire | April 24, 1799 |
| Do fire | Samuel E. Hamlin | Rhode Island | Aug. 30, 1799 |
| Do hydraulic | Patrick Lyon | Pennsylvania | Feb. 12, 1800 |
| Do do | John Strong | Massachusetts | Mar. 24, 1801 |
| Do fire | Stephen Steward | New York | Dec. 6, 1803 |
| Do hydraulic | Fred. Lippart | Keetztown, Pa. | May 3, 1805 |
| Do fire | Jacob Smith, jr. | New York | May 20, 1807 |
| Do crank, for raising and throwing water | Jos. Clapp | Montague, Mass. | Nov. 21, 1810 |
| Do do improvement on Clapp's | Do | Greenfield, Mass. | Nov. 16, 1811 |
| Do hydro pneumatic | Richard Crosbie | Newark, N. J. | Jan. 6, 1812 |
| Do fire | Isaac Hathaway | Walton, N. Y. | Aug. 6, 1812 |
| Do | Allen Pollock and Jacob Perkins | Boston, Mass. | Aug. 6, 1812 |
| Do | John Achman | Washington, D. C. | Dec. 30, 1812 |
| Do | Jac. Perkins | Newburyport, Mass. | Mar. 23, 1813 |
| Do hydrostatic and steam | Stephen H. Long & Geo. F. A. Hauts | Germantown, Pa. | Sept. 3, 1813 |

LIST OF PATENTS—HYDRAULICS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Engine, water | Joel M. Dupuy | Woodford, Ky. | April 13, 1814 |
| Do fire | John Richardson, jr. | Shrewsbury, Mass. | July 24, 1818 |
| Do | Jac. Idler | Philadelphia, Pa. | July 31, 1819 |
| Do fire, domestic | Wm. Wadsworth | Hartford, Ct. | Mar. 16, 1820 |
| Do | Eb. Bryant | New London, Ct. | Mar. 28, 1820 |
| Do | S. Lockwood and W. Loveland | Little Falls, N. Y. | April 16, 1822 |
| Do | Eb. Higgins | Saratoga, N. Y. | April 27, 1822 |
| Do and water pump | E. Williams and J. Collins | Falley ⋈ Rds., Mass. | June 20, 1823 |
| Do pneumo-hydraulic | Richard Wilcox | New York | Nov. 1, 1823 |
| Do fire, horizontal | Luther Holland | Belchestown, Mass. | Mar. 11, 1824 |
| Do | Geo. Shalk and Wm. Tintoff | Lebanon, Pa. | Sept. 23, 1826 |
| Do | Ezekiel Daboll | Canaan, Ct. | April 12, 1828 |
| Do revolving, hydraulic | Asahel Hubbard | Windsor, Vt. | April 22, 1828 |
| Faucets for drawing liquors | Ira Ives | Bristol, Ct. | April 14, 1808 |
| Do plugged | William Jones | New York | May 13, 1812 |
| Do gate | Jer. Brainard | Oneida co., N. Y. | Oct. 4, 1817 |
| Do and spiggot | Jonathan Bliss | Philadelphia, Pa. | June 4, 1821 |
| Filtering water | Danl. McMullin and Thos. M. Corby | - - - | Nov. 6, 1804 |
| Do do and wine, &c. | Solomon McCombs | | |
| | Jos. Smith and Benj. D. Galtin | Baltimore, Md. | June 24, 1806 |

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|---|---|---|---|
| Do pot | Michael Freytag | Philadelphia, Pa. | July 1, 1807 |
| Do machine | Jos. Du Common | New York | Feb. 10, 1816 |
| Do water | Christopher Hall | Norfolk, Va. | Feb. 22, 1828 |
| Do do | John S. Phillips | Philadelphia, Pa. | Aug. 27, 1828 |
| Do do | George B. White | New York | July 7, 1829 |
| Fire, mode of extinguishing and preventing its progress | Benjamin Taylor | New York | Mar. 31, 1794 |
| Do fenders, for preventing the spread of fires | Elisha Ruggles | Rochester, Mass. | Feb. 27, 1821 |
| Fluids, retention and discharge of | Bradford Seymour | Westmoreland, N. Y. | Nov. 10, 1827 |
| Fount, liquor | John Douglas | New York | June 25, 1821 |
| Funnels | Philip Apple | Philadelphia, Pa. | July 13, 1808 |
| Do with vents | David Clark | West Stockbridge, Ms. | April 9, 1810 |
| Hose made of canvass | Samuel Green | New York | Mar. 28, 1792 |
| Do or leather tubes | Abm. L. Pennock & J. Sellers | Philadelphia, Pa. | July 6, 1818 |
| Do fire engine | James Boyd | Boston, Mass. | May 30, 1821 |
| Hydrant for drawing water from aqueducts | David Burt | Schenectady, N. Y. | June 22, 1808 |
| Do | James Ewing | Philadelphia, Pa. | Dec. 19, 1823 |
| Do | Thomas Gibson | Do | Dec. 13, 1823 |
| Do fountain | Lewis Gouley | Do | Aug. 1, 1828 |
| Hydraulic machine for currents | John Clarke | New York | Dec. 31, 1793 |
| Do do | Joshua Hathaway | Vermont | Oct. 29, 1794 |
| Do do | Barnabas Langdon | Do | Feb. 20, 1801 |
| Do do | John B. Aveilhe | South Carolina | Oct. 14, 1802 |
| Do do | Daniel Tomlinson | Brookfield, Ct. | Mar. 27, 1805 |
| Do do | William Barker | Wilkesbarre, Pa. | Aug. 26, 1808 |
| Do do | William Shultz | Philadelphia, Pa. | May 26, 1812 |
| Do do | Charles Darmand | Georgetown, D. C. | Aug. 7, 1817 |
| Do do | Joseph James | Lynganore, Md. | Nov. 18, 1818 |
| Do do | Jer. Black | Northumberland co., Pa | April 23, 1819 |
| Do balance lever | Daniel Fisk | Springfield, N. Y. | July 18, 1820 |
| Do machine | James O. Connor | Bedford, Pa. | May 29, 1824 |

LIST OF PATENTS—HYDRAULICS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Hydraulic elevator | David Corey | New York | Aug. 31, 1827 |
| Do machine | Jac. Roup | Kenhawa, Va. | Oct. 6, 1827 |
| Do elevator | James McCreery | Nobletown, Pa. | Jan. 5, 1828 |
| Do power | Z. A. Parker | Conhocton co., Ohio | Oct. 19, 1829 |
| Hydrometer | Elijah Southworth | New York | Feb. 28, 1821 |
| Do | Joseph C. Tucker & E. Dwelle | Boston, Mass. | Dec. 23, 1822 |
| Hydrostatic paradox, applied to move machinery | Cadwallader D. Colden | New York | May 19, 1815 |
| Do do do pressure of fluids | Do | Do | June 2, 1815 |
| Do ærostatic machinery | E. C. Genet | Albany, N. Y. | Oct. 31, 1825 |
| Ice in conduit pipes | Henry Cunningham | Johnstown, N. Y. | June 29, 1825 |
| Ladder, conflagration | Bennet Lies | New York | June 20, 1815 |
| Do fire | Samuel Lehman | Philadelphia, Pa. | Aug. 9, 1826 |
| Liquors, mode of elevating | John A. Smith | New London, Ct. | Aug. 7, 1826 |
| Do drawing and corking sparkling | Keene A. Bille | New York | Nov. 8, 1828 |
| Pipes, leaden, securing from frost | David Lownes | Pennsylvania | July 21, 1803 |
| Do conduit, clay | Samuel Bartlett | Hartford, Ct. | Oct. 1, 1805 |
| Do do | Rob. Ramsey | Hanover, N. H. | June 24, 1808 |
| Do leaden | Alpheus Todd | Oxford, N. H. | April 18, 1814 |
| Do conduit, to prevent waste of water | Elisha Putnam | Albany, N. Y. | Dec. 31, 1816 |
| Do do | Do | Do | Nov. 18, 1818 |
| Do do | J. Clark & L. Crowell | Westminster, Va. | Dec. 18, 1818 |
| Do aqueduct | Thos. B. Robbins | Stockbridge, Mass. | Mar. 19, 1821 |
| Do clay | John Bower | E. Bethlehem, Pa. | Dec. 1, 1826 |
| Do tubes, &c. | Joseph Putnam | Salem, Mass. | Jan. 17, 1827 |

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| Do leaden, testing | Theophilus Packard | Sherburn, Mass. | April 29, 1828 |
| Do clay | Thos. Wickersham | Newbury, Pa. | May 13, 1828 |
| Piston for pumps | Peter A. Browne | Philadelphia, Pa. | Oct. 9, 1816 |
| Pole, life, and fire engine assistant | William W. Vanloan | Catskill, N. Y. | Feb. 2, 1822 |
| Power, obtaining by certain fluids | Mark J. Brunel | London, England | Mar. 30, 1827 |
| Pump | Elisha Rigg | Pennsylvania | July 29, 1794 |
| Do | Thomas Bourke | Do | Nov. 16, 1796 |
| Do oblique | Jonathan Hunt | New York | June 7, 1798 |
| Do and water pipe | Mark Reeve | Pennsylvania | Dec. 14, 1798 |
| Do universal | Apollos Kinsley | Connecticut | Oct. 28, 1799 |
| Do impellent | Sol. Thayer | Massachusetts | June 9, 1801 |
| Do forcing | John Eveleth | Rhode Island | June 13, 1801 |
| Do | Jac. Perkins | Massachusetts | July 9, 1801 |
| Do | John Clark | New York | May 19, 1803 |
| Do dry bellows | Enoch Alden | Massachusetts | Nov. 15, 1803 |
| Do | Daniel M. Miller | New York | Mar. 5, 1804 |
| Do water | Benjamin Folger | Hudson, N. Y. | July 7, 1804 |
| Do forcing | Aaron Taylor | Boston, Mass. | Oct. 4, 1805 |
| Do spring | William Finn | Baltimore, Md. | Feb. 13, 1806 |
| Do double forcing | Charles Colver | Champlain | April 1, 1806 |
| Do common suction | Daniel Watson | Plymouth, Mass. | Mar. 4, 1808 |
| Do double forcing | Eleazer Cady, jr. | Chatham, N. Y. | Mar. 9, 1808 |
| Do | William Rhodes | New York | May 16, 1808 |
| Do pneumatic forcing | Pliny Upham | Brookfield, Mass. | Jan. 6, 1809 |
| Do | Abm. Horn | Easton, Pa. | Jan. 6, 1809 |
| Do mechanical | William Shultz | Baltimore, Md. | June 24, 1809 |
| Do | Jac. Canfield | Morristown, N. J. | June 28, 1809 |
| Do balance wheel | James Josslyn | Hanover, Mass. | July 25, 1809 |
| Do double bored pendulum | Atkinson Farra | Montgomery co., Pa. | Dec. 5, 1809 |
| Do balance wheel | Lewis Schrack | Norristown, Pa. | Dec. 8, 1809 |
| Do horizontal | Luther Holland | Belcherstown, Mass. | Mar. 28, 1810 |

LIST OF PATENTS—HYDRAULICS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Pump chain, Chinese - - - - - | Jer. Black - | Northumberland, Pa. | Aug. 2, 1810 |
| Do horizontal, double forcing, for fire engines - | Eli Smith - | Palmer, Mass. - | Nov. 6, 1810 |
| Do double forcing - - - - - | William Beach - | Franklin, N. Y. - | Feb. 19, 1811 |
| Do do do - - - - - | Thomas Farris - | Dutchess co., N. Y. | Feb. 20, 1811 |
| Do reverse impelling - - - - | Levi Gray - | Otsego, N. Y. - | Mar. 7, 1811 |
| Do - - - - - - | Pliny Upham - | Brookfield, Mass. - | Mar. 9, 1811 |
| Do sea motion - - - - - | Bennett Lies - | New York - - | Aug. 19, 1811 |
| Do horizontal - - - - - | Luther Holland - | Belcherstown, Mass. | Sept. 10, 1811 |
| Do - - - - - - | Jona. Evans - | Whitestown, N. Y. - | Jan. 6, 1812 |
| Do suction and fire engine - - - | Isaiah Jennings - | Philadelphia, Pa. - | April 11, 1812 |
| Do cog and pendulum - - - - | Bennett Lies - | New York - - | Aug. 6, 1812 |
| Do - - - - - - | Jac. Perkins - | Newburyport, Mass. | Mar. 23, 1813 |
| Do - - - - - - | Thos. Nicholson and Samuel Gunn - | Genoa, N. Y. - | Aug. 6, 1813 |
| Do double, air and water - - - - | James Smallman - | Philadelphia, Pa. - | Mar. 27, 1815 |
| Do - - - - - - | Edw. B. Scammon - | Scipio, N. Y. - | June 20, 1816 |
| Do elliptic valve - - - - - | James Baker - | Charlestown, Mass. - | Jan. 16, 1817 |
| Do - - - - - - | Daniel W. Christman | New York - - | Feb. 8, 1817 |
| Do - - - - - - | Thomas Nicholson - | Washington, D. C. - | April 29, 1817 |
| Do - - - - - - | John M. Dearborn - | Boston, Mass. - | May 3, 1817 |
| Do - - - - - - | William P. Tilton - | Do - | May 6, 1817 |
| Do and pump boxes - - - - | John C. Helle - | Newport, R. I. - | Aug. 1, 1817 |
| Do - - - - - - | Luke M. Leighton - | Portsmouth, N. H. - | Sept. 1, 1817 |
| Do folding paddle - - - - - | Spencer Thomas - | Boston, Mass. - | Oct. 10, 1817 |
| Do - - - - - - | William Purcell - | New York - | Nov. 1, 1817 |

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|---|---|---|---|
| Do | Daniel Updike | New York | Feb. 19, 1818 |
| Do double forcing | Frs. Hamson | Easton, Pa. | Mar. 16, 1818 |
| Do suction | John Edwards | Urbana, Ohio | May 25, 1818 |
| Do | William Hendricks | New York | June 12, 1818 |
| Do wing valve | William Francis | Boston, Mass. | July 11, 1818 |
| Do | James Barron | Norfolk, Va. | Feb. 20, 1819 |
| Do | Job L. Munson | New Haven, Ct. | April 26, 1819 |
| Do | Rob. Gray | Milton, Pa. | Nov. 11, 1819 |
| Do double forcing | William Baker | Springfield, N. Y. | Dec. 31, 1819 |
| Do wind power | Heman Bronson | Kent, Ct. | Mar. 8, 1820 |
| Do double forcing | Lena Gillett, adm'x. of Saml. Gillett | Windsor, Ct. | April 6, 1820 |
| Do suction | Levi Gray | Springfield, N. Y. | May 9, 1820 |
| Do forcing | John Pa idleford | Lebanon, N. Y. | May 6, 1823 |
| Do do and suction | Joshua Clark | Westminster, Vt. | Sept. 11, 1823 |
| Do suction | Daniel Johnson | Boston, Mass. | April 21, 1824 |
| Do forcing | Samuel Currey | Williamson, Ten. | Jan. 3, 1825 |
| Do | John Babcock, jr. | Edmiston, N. Y. | May 6, 1825 |
| Do for beer and cider | Richard Sealy | New York | May 6, 1825 |
| Do | Sylvanus Russell | Olean, N. Y. | Feb. 4, 1826 |
| Do | Theodorick Brooks | Rutland, N. Y. | April 13, 1826 |
| Do | J. Robinson and Luke Shaw | Bath, Me. | Feb. 1, 1827 |
| Do tide, bason | George M. Seldon | Troy, N. Y. | Mar. 10, 1828 |
| Do applying power to common | Noah Underwood | Baltimore co., Md. | July 17, 1828 |
| Do quadruple forcing | Ira Ferris | Ellicott, N. Y. | Aug. 12, 1828 |
| Do for beer, soda water, &c. | Levi Pitkin | Rochester, N. Y. | Oct. 11, 1828 |
| Do | Russell Wileman | E. Hartford, Ct. | July 9, 1829 |
| Do | John W. Hillias | Baltimore, Md. | Sept. 16, 1829 |
| Pumping | Royal Yeamans | Springfield, Mass. | May 28, 1810 |
| Do water for machinery | Liscomb Knapp | Brighton, N. Y. | May 22, 1826 |

## LIST OF PATENTS—HYDRAULICS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Ram, hydraulic | J. Curneau and S. S. Hallet | New York | Aug. 3, 1809 |
| Spear for pumps, horizontal circular valve | Eben. Leman | Boston, Mass. | May 23, 1817 |
| Tubes, clay, for aqueducts | James Ramsey | Burke, Vt. | April 4, 1810 |
| Valve, relieving | Wm. Lanphier | Alexandria, D. C. | Sept. 2, 1826 |
| Water, raising by wind | Samuel Morey | New Hampshire | April 11, 1795 |
| Do do from fountains | John Manning | Do | April 10, 1798 |
| Do do | Mark J. Brunell | New York | April 27, 1798 |
| Do do | Jos. Humpley | Do | Jan. 10, 1799 |
| Do do | William Faris | Maryland | May 17, 1799 |
| Do do for mills | Aaron Brookfield | New Jersey | Oct. 24, 1800 |
| Do do | William Palmer | New York | Aug. 25, 1801 |
| Do do | Benjamin Cooley | Massachusetts | Feb. 1, 1803 |
| Do do | Wm. Harrington | Paris, Ky. | Aug. 28, 1804 |
| Do do | Seraphim Bellig | Baltimore, Md. | Nov. 7, 1805 |
| Do elevator | John Herrick, jr. | Albany, N. Y. | Feb. 1, 1810 |
| Do raising | Samuel Currey | Williamson co., Ten. | April 24, 1810 |
| Do blast | Joseph Ruggles | New Milford, Ct. | June 6, 1811 |
| Do raising from wells | George Patterson | Philadelphia, Pa. | Feb. 6, 1813 |
| Do do | Jacob Hartman | Lampeter, Pa. | Mar. 31, 1814 |
| Do purifying | Samuel Griffith | Rensselaer co., N. Y. | Feb. 1, 1817 |
| Do raising by steam | William Baley | Nelson co., Ken. | Feb. 4, 1817 |
| Do do and forcing | Samuel Finlay, B. Morse, and S. E. Morse | Charlestown, Mass. | Oct. 3, 1817 |

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|---|---|---|---|---|
| Do | raising by steam | James Ambler | Berlin, N. Y. | May 29, 1819 |
| Do | | Wm. Bushnell and J. Altoffer | Harrisburg, Va. | Aug. 30, 1821 |
| Do | raising | N. N. Destreham | Charles Parish, La. | Dec. 13, 1821 |
| Do | do | Social Rolph | Albany, N. Y. | Nov. 16, 1822 |
| Do | do by successive pumps | L. H. Mosby | Powhatan co., Va. | Feb. 15, 1823 |
| Do | do | William Dabney | Richmond, Va. | Nov. 20, 1824 |
| Do | do | Scott Fickett | New York | June 11, 1825 |
| Do | drawing from wells | Elijah Willard | Egremont, Mass. | Nov. 2, 1825 |
| Do | raising and sawing timber | John Winter | Brutus, N. Y. | Nov. 15, 1825 |
| Do | do from wells | Jer. Dexter | Salisbury, Ct. | Jan. 27, 1826 |
| Do | do for domestic purposes | Liscomb Knapp | Brighton, N. Y. | May 22, 1826 |
| Do | do from wells | Elijah Willard | Egremont, Mass. | Oct. 23, 1826 |
| Do | do do | Isaac Willbur | Madison, N. Y. | Dec. 28, 1826 |
| Do | do by steam power | George Fleming | Goochland, Va. | April 24, 1827 |
| Do | do by a revolving wheel | Henry Miller | Allentown, Pa. | July 28, 1827 |
| Do | and other fluids, cooling | Wm. Thornton | Washington, D. C. | July 31, 1827 |
| Do | raising by steam | Joseph S. Fox | Otto, N. Y. | April 5, 1828 |
| Do | do from wells, &c. | Samuel Smith | Mendon, N. Y. | Aug. 20, 1828 |
| Do | power, increasing by atmospheric pressure | Samuel L. Holmes | West Chester, N. Y. | Dec. 8, 1828 |
| Do | raising from wells | Samuel Smith | Mendon, N. Y. | Mar. 17, 1829 |
| Do | do | A. E. Lazell and Dan. Bloodgood | Poughkeepsie, N. Y. | July 27, 1829 |
| Do | do by atmospheric pressure | Samuel McCune | Wilmington, O. | Aug. 25, 1829 |

## LIST OF PATENTEES—HYDRAULICS.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Achman, John | Washington, D. C. | Engine, fire | Dec. 30, 1812 |
| Apple, Philip | Philadelphia, Pa. | Funnels | July 13, 1808 |
| Aveilhe, John B. | South Carolina | Hydraulic machine | Oct. 14, 1802 |
| Alden, Enoch | Massachusetts | Pump, dry bellows | Nov. 15, 1803 |
| Ambler, James | Berlin, N. Y. | Water by steam, raising | May 29, 1819 |
| Benham, John M. | Bridgewater, N. Y. | Aqueduct for water proof lime | Aug. 29, 1827 |
| Baker, James | Charlestown, Mass. | Pump boxes, elliptical valve | May 9, 1817 |
| Bliss, Jona. | New York | Cock for drawing liquor | Sept. 24, 1821 |
| Bartlett, Samuel | Hartford, Ct. | Conduit clay | Jan. 15, 1809 |
| Bryant, Eb. | New London, Ct. | Engine, fire | Mar. 28, 1820 |
| Brainard, Jer. | Oneida co., N. Y. | Faucets, gate | Oct. 4, 1817 |
| Bliss, Jona. | Philadelphia, Pa. | Do and spiggot | June 4, 1821 |
| Boyd, James | Boston, Mass. | Hose, fire engine | May 30, 1821 |
| Burt, David | Schenectady, N. Y. | Hydrant for drawing water from aqueducts | June 22, 1808 |
| Barker, William | Wilkesbarre, Pa. | Hydraulic machine | Aug. 26, 1808 |
| Black, Jer. | Northumberland co., Pa | Do do | April 23, 1819 |
| Bille, Keene A. | New York | Liquors, drawing and corking sparkling | Nov. 8, 1828 |
| Bartlett, Samuel | Hartford, Ct. | Pipes, conduit clay | Oct. 1, 1805 |
| Bower, John | E. Bethlehem, Pa. | Do clay | Dec. 1, 1826 |
| Browne, Peter A. | Philadelphia, Pa. | Piston for pumps | Oct. 9, 1816 |
| Brunel, Mark J. | London, England | Power by certain fluids, obtaining | Mar. 30, 1827 |
| Bourke, Thomas | Pennsylvania | Pump | Nov. 16, 1796 |
| Black, Jer. | Northumberland, Pa. | Do Chinese chain | Aug. 2, 1810 |
| Beach, William | Franklin, N. Y. | Do double forcing | Feb. 19, 1811 |
| Baker, James | Charlestown, Mass. | Do elliptic valve | Jan. 16, 1817 |

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|---|---|---|---|
| Barron, James | Norfolk, Va. | Do | Feb. 20, 1819 |
| Baker, William | Springfield, N. Y. | Do double forcing | Dec. 31, 1819 |
| Bronson, Heman | Kent, Ct. | Do wind power | Mar. 8, 1820 |
| Babcock, John J. | Edmeston, N. Y. | Do | May 6, 1825 |
| Brooks, Theodorick | Rutland, N. Y. | Do | April 13, 1826 |
| Brunell, Mark J. | New York | Water, raising | April 27, 1798 |
| Brookfield, Aaron | New Jersey | Do do for mills | Oct. 24, 1800 |
| Billing, Seraphim | Baltimore, Md. | Do do | Nov. 7, 1805 |
| Baley, William | Nelson co., Ky. | Do do by steam | Feb. 4, 1817 |
| Bushnell, William, & J. Altoffer | Harrisburg, Va. | Do | Aug. 30, 1821 |
| Coon, David | Mendon, N. Y. | Bucket, pump | Nov. 28, 1829 |
| Clapp, Jos. | Montague, Mass. | Engine for raising and throwing water, crank | Nov. 21, 1810 |
| Do | Greenfield, Mass. | Do improvement on Clapp's crank | Nov. 16, 1811 |
| Crosbie, Richard | Newark, N. J. | Do hydro-pneumatic | Jan. 6, 1812 |
| Clark, David | West Stockbridge, Ms. | Funnels with vents | April 9, 1810 |
| Clarke, John | New York | Hydraulic machine for currents | Dec. 31, 1793 |
| Connor, James O. | Bedford, Pa. | Do do | May 29, 1824 |
| Corey, David | New York | Do elevator | Aug. 31, 1827 |
| Cluley, John, & Benjamin Stancliffe | Philadelphia, Pa. | Cock valve | Nov. 8, 1820 |
| Colden, Cadwallader D. | New York | Hydrostatic paradox, applied to move machinery | May 19, 1815 |
| Do | Do | Do do do pressure of fluids | June 2, 1815 |
| Cunningham, Hy. | Johnstown, N. Y. | Ice in conduit pipes | June 29, 1825 |
| Clark, Joshua, and L. Crowell | Westminster, Va. | Conduit pipes | Dec. 18, 1818 |
| Clark, John | New York | Pump | May 19, 1803 |
| Colver, Charles | Champlain | Do double forcing | April 1, 1806 |
| Cady, Eleazer, jr. | Chatham, N. Y. | Do do do | Mar. 9, 1808 |
| Canfield, Jac. | Morristown, N. J. | Do | June 28, 1809 |
| Christman, Daniel W. | New York | Do | Feb. 8, 1817 |

LIST OF PATENTEES—HYDRAULICS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Clark, Joshua | Westminster, Vt. | Pump, forcing and suction | Sept. 11, 1823 |
| Currey, Samuel | Williamson, Tenn. | Do do | Jan. 3, 1825 |
| Cerneau, J., and S. S. Hallet | New York | Ram, hydraulic | Aug. 3, 1809 |
| Cooley, Benjamin | Massachusetts | Water, raising | Feb. 1, 1803 |
| Currey, Samuel | Williamson co., Tenn. | Do do | April 24, 1810 |
| Dickinson, Eli | Amherst, Mass. | Cock | Dec. 17, 1823 |
| Dupuy, Joel M. | Woodford, Ky. | Engine, water | April 13, 1814 |
| Daboll, Ezekiel | Canaan, Ct. | Engine, fire | April 12, 1828 |
| Du Common, Jos. | New York | Filtering machine | Feb. 10, 1816 |
| Douglass, John | Do | Fount, liquor | June 25, 1821 |
| Darmand, Charles | Georgetown, D. C. | Hydraulic machine | Aug. 7, 1817 |
| Dearborn, John M. | Boston, Mass. | Pump | May 3, 1817 |
| Destrecham, N. N. | Charles Parish, La. | Water, raising | Dec. 13, 1821 |
| Dabney, William | Richmond, Va. | Do do | Nov. 20, 1824 |
| Dexter, Jer. | Salisbury, Ct. | Do do from wells | Jan. 27, 1826 |
| Ewing, James | Philadelphia, Pa. | Hydrant | Dec. 19, 1823 |
| Eveleth, John | Rhode Island | Pump, forcing | June 15, 1801 |
| Evans, Jona. | Whitestown, N. Y. | Do | Jan. 6, 1812 |
| Edwards, John | Urbana, O. | Do suction | May 25, 1818 |
| Fenn, Gaines | New York | Cock, stop | July 12, 1823 |
| Freytag, Michael | Philadelphia, Pa. | Pot, filtering | July 1, 1807 |
| Fisk, Daniel | Springfield, N. Y. | Hydraulic balance lever | July 18, 1820 |
| Folger, Benjamin | Hudson, N. Y. | Pump, water | July 7, 1804 |
| Finn, William | Baltimore, Md. | Do spring | Feb. 13, 1806 |

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|---|---|---|---|
| Farra, Atkinson | Montgomery co., Pa. | Do double bored pendulum | Dec. 5, 1809 |
| Farris, Thomas | Dutchess co., N. Y. | Do double forcing | Feb. 20, 1811 |
| Francis, William | Boston, Mass. | Do wing valve | July 11, 1818 |
| Ferris, Ira | Ellicott, N. Y. | Do quadruple forcing | Aug. 12, 1828 |
| Faris, William | Maryland | Water, raising | May 17, 1799 |
| Finlay, Sam., B. Morse, & S. E. Morse | Charlestown, Mass. | Do do and forcing | Oct. 3, 1817 |
| Fickett, Scott | New York | Do do | June 11, 1825 |
| Fleming, George | Goochland, Va. | Do do by steam power | April 24, 1827 |
| Fox, Jos. S. | Otto, N. Y. | Do do do | April 5, 1828 |
| Garey, Jer. | Baltimore, Md. | Cock, metallic screw | April 23, 1822 |
| Green, Samuel | New York | Hose made of canvass | Mar. 28, 1792 |
| Gibson, Thomas | Philadelphia, Pa. | Hydrant | Dec. 13, 1823 |
| Gonley, Lewis | Do | Do fountain | Aug. 1, 1828 |
| Genet, E. C. | Albany, N. Y. | Hydrostatic and aerostatic machinery | Oct. 31, 1825 |
| Gray, Levi | Otsego, N. Y. | Pump, reverse impelling | Mar. 7, 1811 |
| Gray, Robert | Milton, Pa. | Do | Nov. 11, 1819 |
| Gillett, Lena, admx. of Saml. Gillett | Windsor, Ct. | Do double forcing | April 6, 1820 |
| Gray, Levi | Springfield, N. Y. | Do suction | May 9, 1820 |
| Griffith, Samuel | Rensselaer co., N. Y. | Water, purifying | Feb. 1, 1817 |
| Hubball, Eb. | Baltimore, Md. | Cock, water | Oct. 4, 1820 |
| Hamlin, Samuel E. | Rhode Island | Engine, fire | Aug. 30, 1799 |
| Hathaway, Isaac | Walton, N. Y. | Do | Aug. 6, 1812 |
| Higgins, Eb. | Saratoga, N. Y. | Do | April 27, 1822 |
| Holland, Luther | Belcherstown, Mass. | Do horizontal | Mar. 11, 1824 |
| Hubbard, Asahel | Windsor, Vt. | Do revolving hydraulic | April 22, 1828 |
| Hall, Christopher | Norfolk, Va. | Water, filtering | Feb. 22, 1828 |
| Hathaway, Joshua | Vermont | Hydraulic machine | Oct. 29, 1794 |
| Horn, Abraham | Easton, Pa. | Pump | Jan. 6, 1809 |
| Holland, Luther | Belcherstown, Mass. | Do horizontal | Mar. 28, 1810 |

LIST OF PATENTEES—HYDRAULICS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Holland, Luther | Belcherstown, Mass. | Pump, horizontal | Sept. 10, 1811 |
| Hille, Jno. C. | Newport, R. I. | Do and pump boxes | Aug. 1, 1817 |
| Hamson, Francis | Easton, Pa. | Do double forcing | Mar. 16, 1818 |
| Hendrick, William | New York | Do | June 12, 1818 |
| Hillias, John W. | Baltimore, Md. | Do | Sept. 16, 1829 |
| Humpley, Joseph | New York | Water, raising | Jan. 10, 1799 |
| Harrington, Wm. | Paris, Ky. | Do do | Aug. 28, 1804 |
| Herrick, John, jr. | Albany, N. Y. | Do elevator | Feb. 1, 1810 |
| Hartman, Jac. | Lampeter, Pa. | Do raising | Mar. 31, 1814 |
| Holmes, Samuel L. | West Chester, N. Y. | Do power, increasing by atmospheric pressure | Dec. 8, 1828 |
| Hunt, Jonathan | New York | Pump, oblique | June 7, 1798 |
| Idler, Jac. | Philadelphia, Pa. | Engine | July 31, 1819 |
| Ives, Ira | Bristol, Ct. | Faucets for drawing liquors | April 14, 1808 |
| Jones, William | New York | Do plugged | May 13, 1812 |
| Janes, Joseph | Lynganore, Md. | Hydraulic machine | Nov. 18, 1818 |
| Josslyn, James | Hanover, Mass. | Pump, balance wheel | July 25, 1806 |
| Jennings, Isaiah | Philadelphia, Pa. | Do suction, and fire engine | April 11, 1812 |
| Johnson, Daniel | Boston, Mass. | Do do | April 21, 1824 |
| Kersey, Jesse | Pennsylvania | Engine, fire | April 13, 1797 |
| Kinsley, Apollos | Connecticut | Pump, universal | Oct. 28, 1799 |
| Knapp, Liscomb | Brighton, N. Y. | Pumping water for machinery | May 22, 1826 |
| Do | Do | Water for domestic purposes, raising | May 22, 1826 |
| Lacey, John | Philadelphia, Pa. | Cock, piston and valve | May 6, 1823 |
| Lyon, Patrick | Pennsylvania | Engine, hydraulic | Feb. 12, 1800 |
| Lippart, Frederick | Keetztown, Pa. | Do do | May 3, 1805 |

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|---|---|---|---|
| Long, Stephen H., & Geo. F. A. Hauts | Germantown, Pa. | Do hydrostatic and steam | Sept. 3, 1813 |
| Lockwood, S., and W. Loveland | Little Falls, N. Y. | Do fire | April 16, 1822 |
| Langdon, Barnabas | Vermont | Hydraulic machine | Feb. 20, 1801 |
| Lies, Bennet | New York | Ladder, conflagration | June 20, 1815 |
| Lehman, Samuel | Philadelphia, Pa. | Do fire | Aug. 9, 1826 |
| Lownes, David | Pennsylvania | Pipes from frost, securing leaden | July 21, 1803 |
| Lies, Bennett | New York | Pump, sea motion | Aug. 19, 1811 |
| Do | Do | Do cog and pendulum | Aug. 6, 1812 |
| Leighton, Luke M. | Portsmouth, N. H. | Do | Sept. 1, 1817 |
| Leman, Eben. | Boston, Mass. | Pumps, horizontal circular valve spear for | May 23, 1817 |
| Lanphier, William | Alexandria, D. C. | Valve, relieving | Sept. 2, 1826 |
| Lazell, A. E., & Danl. Bloodgood | Poughkeepsie, N. Y. | Water, raising | July 27, 1829 |
| Morris, John | Hartford, Ct. | Cock, stop | Mar. 1, 1815 |
| Do | Do | Do do block tin | Mar. 7, 1816 |
| Do | New Haven, Ct. | Do stock | May 15, 1822 |
| Morey, Samuel | New Hampshire | Engine, water | April 24, 1799 |
| McMullin, Danl., and Thos. McCorby | - - - | Filtering water | Nov. 6, 1804 |
| McCombs, Sol'n, Jos. Smith, and Benj. D. Galtin | Baltimore, Md. | Do do and wine, &c. | June 24, 1806 |
| McCreery, James | Nobletown, Pa. | Hydraulic elevator | Jan. 5, 1828 |
| Miller, Daniel M. | New York | Pump | Mar. 5, 1804 |
| Munson, Job L. | New Haven, Ct. | Do | April 26, 1819 |
| Morey, Samuel | New Hampshire | Water by wind, raising | April 26, 1795 |
| Manning, John | Do | Do from fountains, raising | April 10, 1798 |
| Mosby, L. H. | Powhatan co., Va. | Do by successive pumps, raising | Feb. 15, 1823 |
| Miller, Henry | Allenstown, Pa. | Do raising by a revolving wheel | July 28, 1827 |

## LIST OF PATENTEES—HYDRAULICS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| McClure, Samuel | Wilmington, Ohio | Water, raising by atmospheric pressure | Aug. 25, 1829 |
| Nicholson, Thos., and Samuel Gunn | Genoa, N. Y. | Pump | Aug. 6, 1813 |
| Nicholson, Thomas | Washington City, D.C. | Do | April 29, 1817 |
| Ormsbee, Elijah | Rhode Island | Engine, screw, water | Mar. 21, 1798 |
| Pollock, Allen, and Jacob Perkins | Boston, Mass. | Engine, fire | Aug. 6, 1812 |
| Perkins, Jacob | Newburyport, Mass. | Do do | Mar. 23, 1813 |
| Phillips, John S. | Philadelphia, Pa. | Filtering water | Aug. 27, 1828 |
| Pennock, Abm. L., & J. Sellers | Do | Hose or leather tubes | July 6, 1818 |
| Parker, Z. A. | Conhocton co., Ohio | Hydraulic power | Oct. 19, 1829 |
| Putnam, Elisha | Albany, N. Y. | Pipes to prevent waste of water, conduit | Dec. 31, 1816 |
| Do | Do | Do conduit | Nov. 18, 1818 |
| Putnam, Joseph | Salem, Mass. | Do tubes, &c. | Jan. 17, 1827 |
| Packard, Theophilus | Sherburn, Mass. | Do testing leaden | April 28, 1828 |
| Perkins, Jacob | Massachusetts | Pump | July 9, 1801 |
| Do | Newburyport, Mass. | Do | Mar. 23, 1813 |
| Purcell, William | New York | Do | Nov. 1, 1817 |
| Paddleford, John | Lebanon, N. Y. | Do forcing | May 6, 1823 |
| Pitkin, Levi | Rochester, N. Y. | Do for beer, soda water, &c. | Oct. 11, 1828 |
| Palmer, William | New York | Water, raising | Aug. 25, 1801 |
| Patterson, George | Philadelphia, Pa. | Do do from wells | Feb. 6, 1813 |
| Richardson, John, jr. | Shrewsbury, Mass. | Engine, fire | July 24, 1818 |
| Ruggles, Elisha | Rochester, Mass. | Fire fenders for preventing the spread of fire | Feb. 27, 1821 |

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|---|---|---|---|
| Roup, Jacob | Kenhawa, Va. | Hydraulic machine | Oct. 6, 1827 |
| Ramsay, Robert | Hanover, N. H. | Pipes, conduit clay | June 24, 1808 |
| Robbins, Thos. B. | Stockbridge, Mass. | Pipes, aqueduct | Mar. 19, 1821 |
| Rigg, Elisha | Pennsylvania | Pump | July 29, 1794 |
| Reeve, Mark | Do | Do and water pipe | Dec. 14, 1798 |
| Rhodes, William | New York | Do | May 16, 1808 |
| Russell, Sylvanus | Olean, N. Y. | Do | Feb. 4, 1826 |
| Robinson, J. and Luke Shaw | Bath, Me. | Do | Feb. 1, 1827 |
| Ramsey, James | Burke, Vt. | Aqueducts, clay tubes for | April 4, 1810 |
| Ruggles, Jos. | New Milford, Ct. | Water blast | June 6, 1811 |
| Rolph, Social | Albany, N. Y. | Do raising | Nov. 16, 1822 |
| Stickney, John | Baltimore, Md. | Boxes, pump | May 1, 1804 |
| Scott, Isaac | Boston, Mass. | Do do metallic single valve | May 2, 1817 |
| Sharman, Daniel | Warren, N. Y. | Cock, stop | July 5, 1814 |
| Samno, Fred. D. | Philadelphia, Pa. | Do valve | June 29, 1821 |
| Stancliffe, Benjamin | Do | Cock for hydrants, valve | May 15, 1827 |
| Strong, John | Massachusetts | Engine, hydraulic | Mar. 24, 1801 |
| Stewart, Stephen | New York | Do fire | Dec. 6, 1803 |
| Smith, Jacob, jr. | Do | Do do | May 20, 1807 |
| Shalk, Geo., and William Tintoff | Lebanon, Pa. | Do do | Sept. 23, 1826 |
| Seymour, Bradford | Westmoreland, N. Y. | Fluids, retention and discharge of | Nov. 10, 1827 |
| Shultz, William | Philadelphia, Pa. | Hydraulic machine | May 26, 1812 |
| Southworth, Elijah | New York | Hydrometer | Feb. 28, 1821 |
| Smith, John A. | New London, Ct. | Liquors, mode of elevating | Aug. 7, 1826 |
| Shultz, Wm. | Baltimore, Md. | Pump, mechanical | June 24, 1809 |
| Schrack, Lewis | Norristown, Pa. | Do balance wheel | Dec. 8, 1809 |
| Smith, Eli | Palmer, Mass. | Do for fire engines, horizontal double forcing | Nov. 6, 1810 |
| Smallman, James | Philadelphia, Pa. | Do double, air and water | Mar. 27, 1815 |
| Scammon, Edward B. | Scipio, N. Y. | Do | June 20, 1816 |

LIST OF PATENTEES—HYDRAULICS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Sealy, Richard | New York | Pump for beer and cider | May 6, 1825 |
| Seldon, George M. | Troy, N. Y. | Do tide bason | Mar. 10, 1828 |
| Smith, Samuel | Mendon, N. Y. | Water from wells, &c., raising | Aug. 20, 1828 |
| Do | Do | Do do do | Mar. 17, 1829 |
| Taylor, Benj. | New York | Fire, mode of extinguishing and preventing its progress | Mar. 31, 1794 |
| Tomlinson, Daniel | Brookfield, Ct. | Hydraulic machine | Mar. 27, 1805 |
| Tucker, Joseph C., & E. Dwelle | Boston, Mass. | Hydrometer | Dec. 23, 1822 |
| Todd, Alpheus | Oxford, N. H. | Pipes, leaden | April 18, 1814 |
| Thayer, Sol. | Massachusetts | Pump, impellent | Jan. 9, 1801 |
| Taylor, Aaron | Boston, Mass. | Do forcing | Oct. 4, 1805 |
| Tilton, William P. | Do | Do | May 6, 1817 |
| Thomas, Spencer | Do | Do folding paddle | Oct. 10, 1817 |
| Thornton, William | Washington, D. C. | Water and other fluids, cooling | July 31, 1817 |
| Upham, Pliny | Brookfield, Mass. | Pump, pneumatic forcing | Jan. 6, 1809 |
| Do | Do | Do | Mar. 9, 1811 |
| Updike, Daniel | New York | Do | Feb. 19, 1818 |
| Underwood, Noah | Baltimore co., Md. | Do applying power to common | July 17, 1828 |
| Vanloan, William W. | Catskill, N. Y. | Pole, and fire engine assistant, life | Feb. 2, 1822 |
| Williams, Israel P., & S. G. Rea | Salem, Mass. | Pump boxes | Dec. 9, 1828 |
| Willard, Elijah | Egremont, Mass. | Bucket, emptying well | June 15, 1826 |
| Walker, Peter | New York | Cock, stop | April 10, 1800 |
| Witherle, Joshua | Boston, Mass. | Do or lock, for the passage of fluids | Jan. 16, 1811 |
| Wadsworth, William | Hartford, Ct. | Engine, domestic fire | Mar. 16, 1820 |

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|---|---|---|---|
| Williams, E. & J. Collins | Falley's × Roads, Ms. | Do fire, and water pump - - - - | June 20, 1823 |
| Wilcox, Richard - | New York - - | Do pneumo-hydraulic - - - - | Nov. 1, 1823 |
| White, George B. - | Do - - | Filtering water - - - - - | July 7, 1829 |
| Wickersham, Thomas | Newbury, Pa. - | Pipes, clay - - - - - - | May 13, 1828 |
| Watson, Daniel - | Plymouth, Mass. - | Pumps, common suction - - - - | March 4, 1808 |
| Wileman, Russell - | E. Hartford, Ct. - | Do - - - - - - | July 9, 1829 |
| Willard, Elijah - | Egremont, Mass. - | Water from wells, drawing - - - - | Nov. 2, 1825 |
| Winter, John - | Brutus, N. Y. - | Do raising and sawing timber by - - - | Nov. 15, 1825 |
| Willard, Elijah - | Egremont, Mass. - | Do do from wells - - - - | Oct. 23, 1826 |
| Willbur, Isaac - | Madison, N. Y. - | Do do do - - - - | Dec. 28, 1826 |
| Youle, George - | New York - - | Cock, water - - - - - - | Oct. 25, 1803 |
| Yeamans, Royal - | Springfield, Mass. - | Pumping - - - - - - | May 28, 1810 |

## LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Air draught, subignus - - - - - | Samuel Randall - | Providence, R. I. - | Mar. 12, 1811 |
| Do flue, descending - - - - - | James Macomber - | Greenwich, N. Y. - | Nov. 19, 1811 |
| Do back for chimneys - - - - | Joel Root - - | Southington, Ct. - | Feb. 13, 1812 |
| Do rarified and unrarified, mode of obtaining power by their difference - - - - - | Samuel Morey - | Philadelphia, Pa. - | April 8, 1812 |
| Do heater, cylindrical - - - - | Charles Fowler - | Hartford, Ct. - | July 10, 1829 |
| Alcohol, extracting by steam - - - - | A. & N. Wolcott - | Bloomfield, N. Y. - | Mar. 19, 1827 |
| Atmospheric engine - - - - - | E. & J. Prentiss - | Baltimore, Md. - | June 22, 1824 |
| Do propelling engine - - - | Edw. A. Talbott - | Dublin, Ireland - | June 21, 1828 |
| Do steam engine - - - - | James Mead and Ab. Kitchell - - | Lebanon, Ohio - | July 27, 1829 |

## LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Baker, Wilcox's economical | Philip Wilcox | Springfield, Mass. | Feb. 18, 1829 |
| Bath, double still steam | John J. Giraud | Baltimore, Md. | April 18, 1804 |
| Do floating | Henry Chevens | New York | July 13, 1813 |
| Do warm vessel | Daniel Harrington | Centreville, Va. | Oct. 4, 1813 |
| Do portable hot. | Samuel K. Jennings | Lynchburg, Va. | Jan. 21, 1814 |
| Do veterinary, ventilated | James Carver | Philadelphia, Pa. | Aug. 8, 1817 |
| Do steam | John Deverin, and J. D. Issabelle | Lexington, Ky. | July 6, 1818 |
| Do do medicated | Benjamin Marshall | New York | Dec. 7, 1821 |
| Do or bathing machine | William Merritt | Do | Feb. 1, 1814 |
| Beer, making spruce | John Williams | Cambridge, Mass. | Feb. 17, 1820 |
| Blower, coal grate | R Fuller & T. Thomas | New York | May 22, 1827 |
| Boiler, steam engine | Nathan Read | Salem, Mass. | Aug. 26, 1791 |
| Do do | John Stevens, jr. | Bergen co., N. J. | Aug. 26, 1791 |
| Do do engine | Elijah Bachus | Virginia | May 31, 1796 |
| Do | Benjamin Platt | Connecticut | April 27, 1803 |
| Do for steam, still | William Thornton | Delaware | Oct. 28, 1803 |
| Do mode of setting | Eben Jenks | Portland, Me. | June 1, 1805 |
| Do steam engine, heating water by the rays of the sun | Mat. Longwell | Gettysburg, Pa. | July 11, 1807 |
| Do double, for distilling | Enos Gunn | New Haven, Ct. | Dec. 19, 1808 |
| Do steam, and boats | William Thornton | Washington city, D.C. | Jan. 16, 1809 |
| Do or heater, pipe or grate | Samuel Bolton | Philadelphia, Pa. | July 7, 1809 |
| Do and rectifying still, (boiler patented to Tim. Kirk, still patented to William Chamberlain) | William Eaton | Baltimore, Md. | Oct. 29, 1810 |
| Do circular | Jona. Sizer | New London, Ct. | Oct. 15, 1811 |

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|---|---|---|---|---|
| Do | stone, for chemical purposes | Abm. H. Quincy | Boston, Mass. | June 13, 1812 |
| Do | box | John Morris | New Haven, Ct. | Oct. 3, 1812 |
| Do | cylindrical | Philo M. Hackley | Hudson, N. Y. | Oct. 9, 1813 |
| Do | | Gab. N. Philips | Goshen, N. Y. | June 28, 1814 |
| Do | and furnace, united | Philo M. Hackley | Herkimer, N. Y. | Jan. 23, 1815 |
| Do | or steam generator | Lem'l M. Richards | Cazenovia, N. Y. | Mar. 30, 1815 |
| Do | steam engine | William Shultz | New York | Jan. 26, 1816 |
| Do | steam, and steam engine | Edw. Rumsey, ex'r of James Rumsey | Kentucky | Nov. 15, 1816 |
| Do | do | Humphrey Ricketson | New York | Dec. 13, 1816 |
| Do | do engine | Samuel Morey | Oxford, N. H. | Mar. 13, 1817 |
| Do | do | Royal Yeaman | Baltimore, Md. | Nov. 20, 1817 |
| Do | supplying chamber | John L. Sullivan | Boston, Mass. | Feb. 28, 1818 |
| Do | steam engine | Do | Do | Feb. 28, 1818 |
| Do | do triple pipe | Samuel Morey | Oxford, N. H. | Dec. 19, 1818 |
| Do | do engine | John L. Sullivan | Boston, Mass. | Dec. 29, 1818 |
| Do | upright stove | Thomas E. Barker | Greene co., N. Y. | Feb. 19, 1819 |
| Do | for distilleries | Thomas Pierce | Hartwick, N. Y. | Feb. 27, 1819 |
| Do | steam | Royal Yeaman | Baltimore, Md. | Jan. 9, 1815 |
| Do | water and steam still | Stephen Stillwell | Bainbridge, N. Y. | June 26, 1821 |
| Do | steam engine | Thomas Skidmore | New York | Nov. 30, 1821 |
| Do | do | Stephen Baker | Do | Dec. 13, 1821 |
| Do | universal | And'w Glendenning | Butler co., Pa. | Sept. 25, 1823 |
| Do | steam engine | Ralph Bulkley | New York | Mar. 25, 1824 |
| Do | safety steam | Do | Do | April 8, 1824 |
| Do | steam, cast iron | John R. Averill | Manchester, N. Y. | May 27, 1824 |
| Do | do applied to hatters' grates | H. V. Raymond | New York | Sept. 16, 1824 |
| Do | for anthracite coal | John Barker | Baltimore, Md. | Feb. 7, 1827 |
| Do | steam engine | John Poole | Sheffield, England | May 14, 1827 |
| Do | do | Eben. A. Lester | Boston, Mass. | May 14, 1827 |
| Do | do for stone coal | James G. Wilson | New York | Feb. 22, 1828 |

## LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Boiler, steam engine - - - - - | James P. Allaire - | New York - | May 14, 1828 |
| Do for oil and refining sugar - - - | Wm. A. Archbald - | Do - | May 29, 1828 |
| Do steam - - - - - - | Lem'l M. Richards - | Chagrin river, Ohio - | Aug. 21, 1828 |
| Do do engine - - - - - | Alden Potter - | New York - - | Oct. 11, 1828 |
| Do do - - - - - - | Anth'y Hermange - | Baltimore, Md. - | Nov. 26, 1828 |
| Do for anthracite coal, setting up in distilleries - | John Lovatt - | Philadelphia, Pa. - | Mar. 17, 1829 |
| Do flat, for steam - - - - - | David Fanshaw and H. Hanks - | New York - - | June 11, 1829 |
| Do steam - - - - - - | Frs. Coffin and Chas. C. K. Beach - | Boston, Mass. - | June 29, 1829 |
| Do constructing - - - - - | Jos. Hurd, jr. - | Do - | Nov. 10, 1829 |
| Boiling, method of, applicable to distilling - - | Benj. Eggleston, jr. - | Princetown, N. Y. - | May 27, 1805 |
| Do water, and producing steam - - - | John H. Williams - | Brunswick, N. J. - | July 26, 1810 |
| Do potatoes or other food for cattle - - | Hosea E Potter - | Otsego, N. Y. - | Nov. 20, 1810 |
| Do salt water, improvement on Moffitt's - - | Zina Phinney - | Cairo, N. Y. - | June 19, 1812 |
| Do - - - - - - | Caleb Shepard - | Cincinnatus, N. Y. - | Oct. 4, 1817 |
| Brandy, manufacturing from all kinds of grain - | Chris. H. Hutter - | Pennsylvania - | Feb. 11, 1803 |
| Do imitating from domestic materials - - | Henry Moore - | Aurora, N. Y. - | July 2, 1814 |
| Brewing from Indian corn - - - - | Alex. Anderson - | Pennsylvania - | Jan. 26, 1801 |
| Do spruce beer - - - - - | William Derean - | Philadelphia, Pa. - | June 13, 1815 |
| Do - - - - - - | Arthur Redmond - | Nashville, Tenn. - | May 20, 1819 |
| Do by steam - - - - - | Harvey Hackley - | New York - - | April 21, 1820 |
| Do apparatus - - - - - | R. L. Lloyd and A. Bartenheimer - | Philadelphia, Pa. - | Jan. 27, 1824 |
| Cabouse for cooking - - - - - | John Youle - - | New York - - | May 25, 1795 |

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|---|---|---|---|
| Cabouse for distilling fresh from salt water | Simeon Rouse | Do | Jan. 1, 1803 |
| Do iron | Wm. Ashbridge | Pennsylvania | June 28, 1803 |
| Do | George Youle | New York | Mar. 21, 1806 |
| Do and cooking stove | Do | Do | April 1, 1807 |
| Do | Do | Do | July 27, 1809 |
| Do portable kitchen or stove | James Truman | Philadelphia, Pa. | Dec. 3, 1811 |
| Do | John Bouis | Baltimore, Md. | Dec. 31, 1812 |
| Cane juice, clarifying | Wm. J. McIntosh | Georgia | Mar. 7, 1828 |
| Candlestick | Benj. Dearborn | Boston, Mass. | Oct. 29, 1804 |
| Do holder, economical | Peter Ward and B. Allison | Philadelphia, Pa. | July 20, 1812 |
| Do stick, pewter | Joshua Witherle | Boston, Mass. | Oct. 24, 1817 |
| Case, metallic, for kettles, boilers, stills, &c. | Charles Gaston | Williamsport, Pa. | Jan. 31, 1812 |
| Charcoal from peat | Charles Fales | Worcester, Mass. | Feb. 11, 1807 |
| Do for gunpowder | Fielder Parker | Pr. George's co., Md. | July 25, 1815 |
| Do manufacturing | Isaac Doolittle | Bennington, Vt. | Dec. 14, 1829 |
| Charring wood for procuring gases | Samuel J. Jones | Philadelphia, Pa. | Jan. 17, 1827 |
| Chandeliers of crystallised salt | Fred. B. Merrill | Buffalo, N. Y. | June 13, 1829 |
| Chimneys, improvement in | Richard Stuart | Maryland | Feb. 24, 1797 |
| Do do | David Cooley & Gab. N. Phillips | New York | Aug. 25, 1800 |
| Do do protecting against water | John J. Thomas | Charleston, S. C. | Oct. 2, 1804 |
| Do do | Giles Gridley | Newburyport, Mass. | Mar. 13, 1808 |
| Do do | Lewis Lecesne | Philadelphia, Pa. | June 26, 1809 |
| Do do constructing | Oliver Richardson | Medway, Mass. | April 18, 1810 |
| Do do and fireplaces | Adam Spohn | Comrio, Pa. | Sept. 22, 1814 |
| Do do the machine for cleaning | John Bruff | Baltimore, Md. | Dec. 16, 1814 |
| Do do and fireplaces | Eben. Rand | Hudson, N. Y. | Mar. 27, 1816 |
| Do do stoves and fireplaces | Louis D. Detroisment | New York | April 5, 1817 |
| Do do the machine for sweeping | John Hunt | Baltimore, Md. | July 12, 1817 |
| Do do do do | Francis A. Everard | New York | May 28, 1818 |

## LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Chimneys, improvement in the machine for sweeping - | Aaron Lane - | New York - | Sept. 22, 1818 |
| Do do do do - | William Hall - | Do - | Dec. 19, 1818 |
| Do do do do - | Sam'l S. Edmonson - | Do - | Nov. 8, 1820 |
| Do do and fireplace - - | Obed Delano - | Utica, N. Y. - | Mar. 3, 1821 |
| Do do the machine for sweeping - | John W. Moore - | Washington, D. C. - | Aug. 8, 1821 |
| Do do preventing smoking - | Frederick Crey - | Baltimore, Md. - | Oct. 8, 1821 |
| Do do scraper - - - | Matthew Benson - | Cincinnati, Ohio - | May 15, 1823 |
| Do do curing smoking - - | Samuel Chase - | Williamsport, Pa. - | July 26, 1824 |
| Do do and fireplaces - - | Lewis Kingsbury - | Lavonia, N. Y. - | Feb. 9, 1825 |
| Do do - - - - | A. G. D. Tuthill - | Utica, N. Y. - | June 8, 1826 |
| Do do crank and wheel, dampers for | James Reilly, & John Flannagan - | Waynesborough, Pa. | Mar. 10, 1827 |
| Do do curing smoky - - | A. H. Read - | Montrose, Pa. - | April 3, 1829 |
| Do do machine for cleaning - | Samuel Dow - | Elizabethborough, N. J. | June 11, 1829 |
| Do do glass for lamps - - | Deming Jarves - | Boston, Mass. - | July 20, 1829 |
| Do do cast iron copings - - | Charles Neer - | Waterford, N. Y. - | Sept. 11, 1829 |
| Cistern, boiling - - - - - | Timothy Kirk - | Pennsylvania - | Dec. 20, 1802 |
| Coffee extractor - - - - - | Lewis Martelly - | New York - - | Sept. 30, 1825 |
| Coffee roaster - - - - - - | Peregrine Williamson | Baltimore, Md. - | Mar. 20, 1820 |
| Do - - - - - - | Do - - | Do - - | June 18, 1825 |
| Combustion and explosion, used as a new power - | Aug. Day - - | Bordentown, N. J. - | Jan. 19, 1811 |
| Condensing tub, improvement on Anderson's - - | Henry Witmer - | Lancaster, Pa. - | May 17, 1805 |
| Do vapors in distillation - - - | Noel Blanche - | New York - - | Mar. 2, 1811 |
| Do box for wooden still - - - | Rufus W. Adams - | Marlborough, Vt. - | Mar. 27, 1812 |
| Do tub - - - - - - | Alexander Anderson | Philadelphia, Pa. - | Oct. 27, 1813 |

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|---|---|---|---|
| Do steam and cooling liquor | Benjamin F. Joslin | New York | Feb. 9, 1825 |
| Condenser | Lyman Cooke | Whitestown, N. Y. | Mar. 26, 1811 |
| Do and heater for manufacturing spirituous liquor | Thomas Shurley | New Madison c. h., Va. | Nov. 18, 1814 |
| Do for steam engines | Thomas Skidmore | New York | Dec. 1, 1821 |
| Cooking and boiling | Thomas Passmore | Philadelphia, Pa. | Dec. 23, 1796 |
| Do | Fred. Butler | Connecticut | Aug. 22, 1800 |
| Do steam apparatus | John Bouis | Baltimore, Md. | Jan. 6, 1812 |
| Do apparatus | John Morris | New Haven, Ct. | Oct. 3, 1812 |
| Do machine for families | John Seger | New York | Nov. 14, 1815 |
| Do do portable | David Asher | Philadelphia, Pa. | Feb. 18, 1825 |
| Do apparatus | David Westerfield | New York | Mar. 24, 1827 |
| Do fixtures for anthracite coal | Jac. F. Walters | Philadelphia, Pa. | June 8, 1827 |
| Do apparatus | Ez. Bennett | Kingsbury, N. Y. | Feb. 15, 1828 |
| Do machine, called the economical cook | John J. Hess | Philadelphia, Pa. | Mar. 19, 1829 |
| Do applying heat from iron castings for | Peter E. Sanburn | Troy, N. Y. | June 11, 1829 |
| Distilling, improvement in | Aaron Putnam | Medford, Mass. | Jan. 29, 1791 |
| Do do | Nathan Read | Salem, Mass. | Aug. 26, 1791 |
| Do do | Jos. Simpson | Richmond, Va. | Mar. 4, 1794 |
| Do do or compound distillation | Fitch Hall | New York | April 17, 1797 |
| Do do condenser | Alex'r Anderson | Pennsylvania | Jan. 26, 1801 |
| Do do spirits | Daniel Ilsley | Massachusetts | May 14, 1803 |
| Do do alcohol | Lemuel J. Kilborn & John Biddis | New York | June 4, 1803 |
| Do do by steam | Samuel Brown, Edward West & Thomas West | | July 8, 1803 |
| Do do apparatus | Abm. Heistand | Yorktown, Pa. | Nov. 27, 1805 |
| Do do do | Abm. Weaver | Adams co., Pa. | April 23, 1807 |
| Do do or boiling water | Eli Barnum and Benjamin Brooks | New Marlboro', Mass. | Mar. 21, 1808 |
| Do do | Do | Do | July 13, 1808 |

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Distilling or distillation | John Dimond | Philadelphia, Pa. | Dec. 28, 1808 |
| Do apparatus | Antoine Boucherie | Do | Jan. 30, 1809 |
| Do spirits from cornstalks | Burgess Allison | Do | July 6, 1809 |
| Do in cast iron stills | Jos. Coppinger | Beaufort, S. C. | Nov. 21, 1809 |
| Do apparatus | William Chamberlain | Vermont | Mar. 17, 1810 |
| Do by steam | John M. Bennett | Middletown, Ct. | May 1, 1810 |
| Do apparatus | Augustus Tobey | Alford, Mass. | June 21, 1810 |
| Do | Mich'l Garber, sr. | Staunton, Va. | July 13, 1810 |
| Do essential oil and spirits | David Jewett | Pittsfield, Mass. | Jan. 24, 1811 |
| Do spirits from cornstalks | John Saunders | Schenectady, N. Y. | Feb. 7, 1811 |
| Do | Jac. Miller | Lancaster co., Pa. | Mar. 2, 1811 |
| Do apparatus and kitchen ranges | William Gamble | Washington City, D.C | April 18, 1811 |
| Do | Andrew Dunlop | Boston, Mass. | May 3, 1811 |
| Do | John J. Giraud | Baltimore, Md. | June 14, 1811 |
| Do and refining apparatus | Jac. Sherer and Abm. Killian | Lancaster, Pa. | June 17, 1811 |
| Do spirits at one operation | Jona. Shaw | Palmer, Mass. | Nov. 13, 1811 |
| Do apparatus | Lewis Lecesne | Belleville, N. J. | Dec. 4, 1811 |
| Do | Omri Carrier | Enfield, Ct. | Nov. 2, 1812 |
| Do and boiling liquors | John Morris | New Haven, Ct. | Mar. 3, 1813 |
| Do | John Bates | Hartford, Ct. | Jan. 26, 1813 |
| Do cylindrical heater | Charles Jenks, and Abiel Pease | E. Windsor, Ct. | July 12, 1813 |
| Do heating liquor, &c. | Thomas Belden | Hartford, Ct. | Aug. 18, 1813 |
| Do apparatus | Isaac Hoffman | Shawangunk, N. Y. | Dec. 31, 1813 |

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| Do | - - - - - - | John W. Alber - | Pennsborough, Pa. - | April 19, 1814 |
| Do | - - - - - - | Wm. M B. Wollias & Hiram P. Barlow | Oneida co., N. Y. - | May 6, 1814 |
| Do | from grain - - - - - | Simeon Shirtliff - | Do - - | July 5, 1814 |
| Do | do by steam - - - - | David Dewey - | Sullivan, N. Y. - | July 5, 1814 |
| Do | - - - - - - | Naphtali Hart - | Easton, Pa. - | Oct. 29, 1814 |
| Do | and generating steam - - - | Enos Brown - | Oneida co., N Y. - | Jan. 23, 1815 |
| Do | turpentine, tar, &c. - - - - | William A. Rapp - | New York - - | Dec. 4, 1815 |
| Do | by steam - - - - - | Hez. Carry - | Brooklyn, N. Y. - | Feb. 16, 1816 |
| Do | and rectifying - - - - | John Whips - | Jefferson co., Ky. - | April 22, 1816 |
| Do | apparatus - - - - - | Naman Goodsell - | Paris, N. Y. - | June 13, 1816 |
| Do | - - - - - - | William Richardson - | Kingston, N. Y. - | June 15, 1816 |
| Do | - - - - - - | Ezra Talmage - | Lancaster, Ky. - | July 8, 1816 |
| Do | apparatus - - - - - | Amos Blood - | Boston, Mass. - | July 16, 1816 |
| Do | - - - - - - | Pierce Woods - | Frederick co., Md. - | Sept. 29, 1818 |
| Do | - - - - - - | James Case - - | New York - - | Mar. 18, 1819 |
| Do | apparatus - - - - - | Henry Field - | Camillus, N. Y. - | June 17, 1819 |
| Do | do - - - - - | Fred. Kalisky - | Philadelphia, Pa. - | Dec. 14, 1819 |
| Do | by steam - - - - - | Richard Wilcox - | New York - - | April 20, 1820 |
| Do | - - - - - - | David Cutler - | Leonard co., O. - | Feb. 20, 1821 |
| Do | - - - - - - | Robert Blaikee - | New York - - | April 27, 1821 |
| Do | apparatus - - - - - | Henry F. Fisher - | Philadelphia, Pa. - | Sept. 12, 1821 |
| Do | - - - - - - | Philip Griemer - | Brandywine, Pa. - | April 17, 1822 |
| Do | - - - - - - | Fred. S. Cozzens - | New York - - | July 27, 1822 |
| Do | apparatus - - - - - | Uriah Swetland - | Kingston, Pa. - | Nov. 18, 1822 |
| Do | by steam - - - - - | Elias Gielhanson - | Halifax towns'p, Pa. | Jan. 14, 1823 |
| Do | - - - - - - | Malcolm McDonald - | Fayette co., Pa. - | Feb. 19, 1823 |
| Do | - - - - - - | J. Carpenter and J. Roe - - | New York - - | Jan. 29, 1824 |
| Do | machinery - - - - - | Daniel Jackson - | Peru, N. Y. - | Dec. 28, 1824 |
| Do | by steam - - - - - | William Avery - | Pompey, N. Y. - | May 13, 1825 |

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Distilling all kinds of liquor - - - - | Norman & A. Walcott | Bloomfield, N. Y. - | Dec. 8, 1826 |
| Do - - - - - - - | John M. Aiken - | Philadelphia, Pa. - | Aug. 30, 1827 |
| Do - - - - - - - | Abm. Whitson - | Staunton, Va. - | Sept. 28, 1825 |
| Do cordials - - - - - - | Lewis C. and Phil. Bodman - - | Baltimore, Md. - | Sept. 30, 1825 |
| Do apparatus - - - - - - | John C. Douglass - | Troy, N. Y. - | Nov. 26, 1825 |
| Do - - - - - - - - | Samuel Harwood, 3d | Braintree, N. Y. - | April 15, 1826 |
| Do - - - - - - - - | Wm. J. Cocke - | Surry county, Va. - | Oct. 30, 1827 |
| Do by using the escape steam of a steam engine - | Davis Embree - | New Richmond, O. - | Dec. 3, 1827 |
| Do - - - - - - - - | James Lusk - - | Butler county, O. - | Dec. 22, 1827 |
| Do - - - - - - - - | Wm. J. Cocke - | Cabin Point, Va. - | Feb. 4, 1828 |
| Do by steam - - - - - - | Benjamin Barr - | Strasburg towns'p, Pa. | April 5, 1828 |
| Do spirits - - - - - - | Jacob Hugus - | Hempfield t'ns'p, Pa. | May 17, 1828 |
| Do do from still slops - - - - - | David White - | Fredonia, N. Y. - | June 17, 1828 |
| Do - - - - - - - - | T. Lawes & P. Grosjean | Louisville, Ky. - | July 30, 1828 |
| Do - - - - - - - - | James R. Nance - | Floyd, Ind. - - | Dec. 27, 1828 |
| Do maize - - - - - - - | Anthony Doolittle - | Ann Arbor, M. T. - | Nov. 10, 1829 |
| Do - - - - - - - - | William Cooke - | Southport, N. Y. - | Dec. 7, 1829 |
| Electrophorus - - - - - - | David F. Lanny - | Philadelphia, Pa. - | Aug. 23, 1811 |
| Evaporating furnace - - - - - | Jno. Richardson - | New York - - | Sept. 13, 1802 |
| Do boiler - - - - - - | Jno. Moffit - - | Do - - | Feb. 1, 1803 |
| Do furnace - - - - - - | Jno. Richardson - | Do - - | April 4, 1803 |
| Do pan and furnace - - - - | Augustus Kolb - | Steubenville, O. - | Jan. 14, 1825 |
| Do liquids - - - - - - | Charles Sholes - | Phelps, N. Y. - | July 26, 1826 |
| Evaporation in distilling - - - - | Benjamin Henfrey - | Pennsylvania - | Mar. 2, 1801 |

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|---|---|---|---|
| Do | Thomas Arnold | - - - | Mar. 5, 1806 |
| Evaporator | Thomas Bedwell and Benj. Henfrey | Pennsylvania | Feb. 12, 1801 |
| Do and steam engine | David Heath | Philadelphia, Pa. | July 26, 1816 |
| Do compound | Jno. A. Wadsworth | Portsmouth, R. I. | Nov. 23, 1825 |
| Extinguisher and chimney regulator | Daniel Shoemaker | Philadelphia, Pa. | Mar. 27, 1812 |
| Do do sweeper | Ephraim Paine | Do | Dec. 11, 1817 |
| Do fire and chimney | Daniel Berrien | New York | Aug. 21, 1823 |
| Fermenting apple cider | Wm. Elder | New Brunswick, N. J. | Aug. 21, 1822 |
| Do and distilling spirits | Ira Belknap | Millersburg, Pa. | July 20, 1827 |
| Fire cavern | Abm. Quincy | Boston, Mass. | Mar. 20, 1811 |
| Firemen protecting machine | Ralph Bulkley | New York | Mar. 29, 1821 |
| Fire, mode of extinguishing | Samuel P. Lord, jr. | Connecticut | Mar. 10, 1804 |
| Fireplaces | Charles W. Peale | Pennsylvania | Nov. 16, 1797 |
| Do the Columbia | Robert Hetterick | Winchester, Va. | June 30, 1803 |
| Do the double draught | Talmage Ross | New Jersey | Jan. 23, 1804 |
| Do close | Horatio B. Spafford | Hudson, N. Y. | May 3, 1805 |
| Do with flat funnel | Abm. Fisher | - - - | Feb. 19, 1807 |
| Do and stoves | Allen Pollock | Boston, Mass. | April 23, 1807 |
| Do | Giles Gridley | Newburyport, Mass. | Feb. 14, 1808 |
| Do | Eb. Whiting | Gr. Barrington, Mass. | June 18, 1810 |
| Do | Charles E. Cooper | Albany, N. Y. | June 27, 1810 |
| Do grated | Augustus Graham | Fredericktown, Md. | Nov. 24, 1810 |
| Do and andirons | Jno. Sweet | Berkshire, Mass. | Feb. 26, 1811 |
| Do | Peter Sternberg | Montgomery co. N. Y. | Mar. 20, 1811 |
| Do | Do | Do | Oct. 28, 1811 |
| Do | Do | Do | Nov. 19, 1811 |
| Do fluted back | Eli Mix | New Haven, Ct. | April 25, 1812 |
| Do and chimney | Samuel Morey | Philadelphia, Pa. | Jan. 18, 1813 |
| Do | David F. Lanny | Do | Mar. 18, 1813 |
| Do and stove | Ezra Haskell | New London, Ct. | June 25, 1813 |

## LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Fireplaces and stove | Chauncey Guernsey | Poultney, Vt. | July 7, 1813 |
| Do chimneys, &c. | Jno. C. Brush | Washington, D. C. | Jan. 28, 1814 |
| Do called the Defiance | Erastus Bartholomew and Wm. Church | Boston, Mass. | Aug. 19, 1815 |
| Do | Levi Shepard | Northampton, Mass. | Jan. 25, 1817 |
| Do | Wm. Salisbury | Derby, Vt. | Aug. 16, 1817 |
| Do | Ebenezer Jenks | Colebrook, Ct. | Sept. 2, 1818 |
| Do | Eliphalet Nott | Schenectady, N. Y. | Feb. 3, 1819 |
| Fire hearth range or galley | George Youle | New York | Mar. 19, 1819 |
| Fireplaces, close and open | John C. Brush | Washington City, D.C. | Aug. 19, 1819 |
| Do | Elijah Griffiths | Philadelphia, Pa. | Mar. 6, 1820 |
| Do | Wm. Shuneman | Catskill, N. Y. | Aug. 8, 1821 |
| Do | Joseph Magini | Baltimore, Md. | Feb. 4, 1822 |
| Do | Stephen Spalding | Colchester, Ct. | April 11, 1822 |
| Do and chimneys | Cyrus Blood | Washington co., Md. | April 7, 1825 |
| Do | Wm. Hoyt | Brookville, Ind. | June 3, 1825 |
| Fire stop | Elisha Putnam | New York | Aug. 24, 1802 |
| Fire and light, producing | Isaiah Jennings | Do | June 11, 1829 |
| Forge, hollow fire | Samuel Collins | Springfield, Mass. | Sept. 11, 1822 |
| Fuel, drying for glass furnaces | James Lee | Philadelphia, Pa. | Jan. 14, 1811 |
| Do saving | Zina Phinney | Cairo, N. Y. | Oct. 31, 1812 |
| Fumiductor | Wm. A. Barron | New York | Sept. 10, 1812 |
| Furnace, pot and pearl ash | Edward Ryan | Pennsylvania | April 29, 1793 |
| Do or economical stove | Jos. Pondrell | New York | April 6, 1808 |
| Do for heating ovens | Abm. H. Quincy | Boston, Mass. | Feb. 17, 1812 |

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|---|---|---|---|
| Do portable, for casting brass or other metal | Joseph Share | Baltimore, Md. | Mar. 30, 1813 |
| Do air for stone coal | Thomas Gregg | Connellsville, Pa. | Mar. 16, 1814 |
| Do for melting and refining metals | Thos. & Jos. Barnhurst and Wm. Walker | Philadelphia, Pa. | May 4, 1814 |
| Do and fireplace for heating and evaporating liquids | Peter Tomlinson | Derby, Ct. | Mar. 7, 1815 |
| Do cupola | Henry Warral | New York | Dec. 31, 1821 |
| Do making | Geo. W. Robinson | Attleborough, Mass. | Aug. 19, 1822 |
| Do fire-proof for distilleries | John Miller | Northampton, Pa. | Mar. 13, 1823 |
| Do and forge backs | Lewis Gillet | Copenhagen, N. Y. | Aug. 21, 1823 |
| Do for fossil coal | Daniel Stansbury | Bellville, N. J. | April 15, 1825 |
| Do stoves, &c., constructing | Social Rolph | Wailes, N. Y. | Nov. 8, 1826 |
| Do for anthracite coal | Wm. Church | Boston, Mass. | Nov. 20, 1826 |
| Do and fireplaces | J. W. Boot and Wm. Lynn | Do | Dec. 29, 1826 |
| Do for heating hatters' finishing irons | Garret V. Raymond | Richmond, Va. | Sept. 29, 1825 |
| Do for burning anthracite and other coal | Oliver Woodruff | New York | Nov. 7, 1825 |
| Do do do do | John L. Sullivan | Do | Nov. 26, 1825 |
| Do for heating iron hoops | Garret Post | Auburn, N. Y. | May 22, 1826 |
| Do iron | Benjamin B. Howell | Philadelphia, Pa. | Oct. 11, 1828 |
| Do steam, for anthracite coal | Do | Do | Oct. 14, 1828 |
| Do and oven, portable cooking | Leonidas V. Badger | Dover, N. H. | Jan. 30, 1829 |
| Do with reflectors | John Hurd, jr. | Boston, Mass. | Nov. 10, 1829 |
| Gas, antiseptic | J. G. M Picornell | New York | Mar. 24, 1803 |
| Do engine without steam | Samuel Brown | London, England | Mar. 2, 1824 |
| Do do | Maximin Isnard | New York | Dec. 11, 1824 |
| Do or vapor engine | Samuel Morey | Oxford, N. H. | April 1, 1826 |
| Do and heated air in aid of steam power | Minus Ward | Baltimore, Md. | May 15, 1827 |
| Do light from cotton seed | Denison Olmstead | New Haven, Ct. | July 21, 1827 |
| Do inflammable, during the combustion of anthracite coal | M. Ward & R. W. Hall | Baltimore, Md. | Jan. 19, 1828 |
| Do lamp | David Melville | Newport, R. I. | Mar. 24, 1810 |

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Gas lamp - - - - - - | David Melville - | Newport, R. I. - | Mar. 18, 1813 |
| Gauge sight for steam boilers - - - - | Wm. Barker - | Kingston, Pa. - | Mar. 24, 1826 |
| Gin cordial - - - - - - | Antoine Boucherie - | Philadelphia, Pa. - | Jan. 31, 1809 |
| Do making - - - - - - | Erastus V. Freeman | - - - | April 10, 1811 |
| Grates, improvement in - - - - | Charles Hunt - | New York - - | Mar. 17, 1812 |
| Do do - - - - - | Charles M. Graham - | Do - - | Nov. 10, 1821 |
| Do do reverberating - - - | Robert Mayo - | Richmond, Va. - | Nov. 1, 1825 |
| Do do the, and blower for Lehigh coal | S.C.Mott & W.Holmes | New York - - | Nov. 26, 1826 |
| Do do cooking - - - | Thomas Vinton - | Philadelphia, Pa. - | Oct. 31, 1829 |
| Heat applied to fluids - - - - | S. Applegate, T.Howard, & P.H.Wharton | Do - | Nov. 22, 1809 |
| Do spare, of a blast furnace, applied to steam engines - | Edw. Burrall - | Canaan, Ct. - | Jan. 31, 1816 |
| Do collecting, and retaining in stoves - - | William Phoebus - | New York - - | Nov. 28, 1817 |
| Do retainer and imparter - - - - | John R. Mitchell - | Philadelphia, Pa. - | Nov. 19, 1818 |
| Do evolution and management of - - - | Eliphalet Nott - | Schenectady, N. Y. - | Mar. 23, 1826 |
| Do do do - - - | Do - - | Do - | June 21, 1826 |
| Do do do - - - | Do - - | Do - | Dec. 29, 1826 |
| Do do do - - - | Do - - | Do - | May 30, 1827 |
| Do escape of the steam engine, application - - | Alex. Brown - | Salina, N. Y. - | Oct. 30, 1827 |
| Do evolution and management of - - - | Eliphalet Nott - | Schenectady, N. Y. - | Mar. 26, 1828 |
| Do produced by management of combustion - - | Keene A. Bille - | New York - | Nov. 8, 1828 |
| Heating rooms, method of - - - - | Allen Pollock - | Boston, Mass. - | April 24, 1807 |
| Do liquids - - - - - | Roswell Volentine - | Canaan, N. Y. - | June 13, 1812 |
| Do water for tanning in cold weather - - | Caleb Atwater - | Genoa, N. Y. - | June 2, 1813 |
| Do plates for hot pressing - - - - | Moses A. Quigley - | Washington co., Md. | June 15, 1819 |

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|---|---|---|---|
| Do liquids in wooden cisterns | David McAllister | Brookfield, Vt. | July 15, 1822 |
| Do and boiling water | George J. Payne | Lockport, N. Y. | Dec. 27, 1826 |
| Do liquids | Samuel Bolton | Philadelphia, Pa. | Jan. 16, 1809 |
| Ice preserver, portable | Enoch Powers | Hartford, Ct. | Aug. 28, 1821 |
| Illuminator for stair cases | John H. Ross | Baltimore, Md. | June 24, 1808 |
| Kettles, &c., setting for boilers | Geo. W. Robinson | Attleborough, Mass. | July 17, 1818 |
| Do and boiler for heating water | Philo N. Griffith | Orange, N. J. | Sept. 26, 1825 |
| Kiln, lime | Peter Lossing | New York | Aug. 4, 1800 |
| Do for drying grain | Benjamin Parry | Bucks co., Pa. | July 7, 1810 |
| Do do | John Hughson | Clinton co., N. Y. | July 18, 1811 |
| Do lime | William Gorsuch | Baltimore, Md. | Aug. 17, 1811 |
| Do for drying grain | Hez. Parsons | Colebrook, N. H. | July 9, 1812 |
| Do for earthenware | James Hassell | Elizabethtown, N. J. | Oct. 21, 1815 |
| Do lime | Thomas Power | Hudson, N. Y. | Jan. 7, 1817 |
| Do do | George Harper | Jenkerstown, Pa. | Jan 22, 1817 |
| Do do | Jacob Swope | Lancaster, Pa. | Mar. 14, 1817 |
| Do for seasoning wood | James Ronaldson | Philadelphia | Feb. 2, 1818 |
| Do for drying malt by steam | David St. L. Davis | Hibernia, Tenn. | Aug. 30, 1822 |
| Do do all kinds of grain | Robert Andrews | Fleming co., Ky. | Nov. 7, 1822 |
| Do for burning brick | Robert Crutchfield | Botetourt co., Va. | Feb. 7, 1824 |
| Do steam | George G. Moore | New York | Dec. 4, 1824 |
| Do for charring coal | Conrad Kounslar | Mill Creek, Va. | June 20, 1825 |
| Do brick | John Duff | Washington, D. C. | Oct. 31, 1825 |
| Do do covering | Sam'l R. Bakewell | Wellsburg, Va. | May 10, 1826 |
| Do do and lime, and boiling kettles | Solomon Hill | New Milford, Ct. | Feb. 12, 1827 |
| Do lime | Abel Jeans | Mill Creek hund. Del. | Feb. 15, 1827 |
| Do do | Louis Bomeisler | Philadelphia, Pa. | Sept. 10, 1829 |
| Do brick | Aaron Noyes | Newburg, N. Y. | Dec. 28, 1829 |
| Do lime | Thomas Power | - - - | July 12, 1804 |
| Do for drying grain | James Deneale | Virginia | July 10, 1800 |
| Do do | James Abraham | Middlesex, N. J. | Dec. 20, 1805 |

## LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Kitchen, steam, for ships | Nich. Boureau | | Aug. 30, 1802 |
| Do do baking | Samuel Smith | Herkimer, N. Y. | June 11, 1811 |
| Do moveable | George Youle | New York | July 1, 1814 |
| Do summary | John Bouis | Baltimore, Md. | Jan. 19, 1826 |
| Lamp for tallow | John Dove | South Carolina | June 11, 1798 |
| Do and liquids to be burnt therein | Joseph Hawkins | Baltimore, Md. | April 21, 1810 |
| Do | James Mallory | New York | Nov. 20, 1812 |
| Do nurse | William Howe | Boston, Mass. | Dec. 31, 1812 |
| Do double reflecting | Wm. Foster, jr., and Leonard Foster | Do | Aug. 28, 1813 |
| Do | Edw. Clarke | Philadelphia, Pa. | April 27, 1814 |
| Do | Alexander Black | Barnstable, Mass. | Oct. 3, 1817 |
| Do | Winslow Lewis | Boston, Mass. | Jan. 23, 1818 |
| Do argand | David Melville | Newport, R. I. | Nov. 19, 1818 |
| Do candle | Asa Taylor | Philadelphia, Pa. | Oct 9, 1819 |
| Do pneumatic | Ez. F. Smith | Lenox, Mass. | Nov. 8, 1819 |
| Do for burning fat, &c. | Josiah Warren | Cincinnati, O. | Feb. 28, 1821 |
| Do | James Duke | New York | Aug. 15, 1821 |
| Do lighthouse | Chris. Cornelius | Philadelphia, Pa. | Dec. 28, 1822 |
| Do economical condensing | Thomas Phillips | New York | June 25, 1823 |
| Do for boiling water | Thos. G. Fessenden | Boston, Mass. | Jan. 31, 1827 |
| Do safety compass | Jos. Feinour and Jos. Feinour, jr. | Philadelphia, Pa. | April 5, 1828 |
| Do signal | Do | Do | Aug. 1, 1828 |

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|---|---|---|---|
| Do | Isaiah Jennings | New York | Mar. 3, 1829 |
| Do construction of, and economy of light | Do | Do | June 11, 1829 |
| Do | Do | Do | Sept. 10, 1829 |
| Lantern | John Staniford and Amos D. Allen | Windham, Ct. | May 10, 1804 |
| Do reflecting and magnifying | Winslow Lewis | Boston, Mass. | June 8, 1810 |
| Light, extracting from fuel | Benjamin Henfry | Pennsylvania | April 16, 1802 |
| Light from stone coal gas | Lewis Peters and W. Zigler | Georgetown | Sept. 28, 1815 |
| Lightning rods | Elisha Calender | Boston, Mass. | Oct. 3, 1808 |
| Do securing | John Brown and Geo. W. Robinson | Providence, R. I. | Sept. 24, 1825 |
| Lime, manufacturing from marle | Jedediah Peasley | Vermont | Feb. 1, 1830 |
| Do reducing calcareous matter into | Charles Varle | - - - | May 2, 1806 |
| Liquids, charging with gas | Jos. H. Laning | Davidson co., Tenn. | Dec. 23, 1824 |
| Liquor, cooling | David Lowndes | Pennsylvania | July 21, 1803 |
| Do determining the strength of | William Cornell | Brooklyn, N. Y. | Aug. 20, 1827 |
| Mash, cooling, for distillation | Thomas Whitemell | Scotland Neck, N. C. | Sept. 2, 1815 |
| Do machine for distilleries | Warham Whitney | Rochester, N. Y. | Jan. 19, 1826 |
| Match lights and boxes | Richard Allison and N S. Allison | Burlington, N. J. | Mar. 26, 1814 |
| Mead, carbonated | James Heaton | New York | July 28, 1819 |
| Melting metals | Jos. Watworth | Do | Oct. 17, 1809 |
| Do and ores | Daniel Walworth | Middletown, Ct. | May 27, 1814 |
| Ovens, perpetual | James Deneale | Dumfries, Va. | Dec. 4, 1806 |
| Do | John West | Stafford, Va. | Oct. 27, 1808 |
| Do | John Barnitt | Upper Providence, Pa. | Mar. 3, 1809 |
| Do | John Bouis | Baltimore, Md. | Dec. 30, 1812 |
| Do perpetual | Wm. T. Hunter | New York | Jan. 8, 1818 |
| Do American | Ephm. Treadwell | Salem, Mass. | Aug. 27, 1818 |
| Do portable rotary | Richard Wilcox | New York | April 20, 1820 |

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Ovens, flue door | Benj. Simonds, jr. | Bedford, Mass. | Oct. 15, 1821 |
| Do bake | Henry Reip | Baltimore, Md. | Sept. 27, 1825 |
| Do revolving | Stephen Harris | Norfolk, Va. | Dec. 5, 1825 |
| Do and rooms, heating | Mich. B. Poiteaux | Richmond, Va. | Jan. 17, 1827 |
| Do for baking over a cooking furnace | Eli Moody | Northfield, Mass. | April 5, 1828 |
| Do portable | Frs. L. Hedenberg | New York | April 26, 1828 |
| Do with reflectors | John Hurd, jr. | Boston, Mass. | Nov. 10, 1829 |
| Pan, salt water | Wm. Blocksom and J. T. Fracker | Zanesville, Ohio | Mar. 23, 1829 |
| Pipes for stills of tin plate, lead | Thomas Ewbank | New York | May 9, 1823 |
| Piston, rotative | John M. Cooper | Guildhall, Vt. | July 16, 1827 |
| Pump, double air for steam engines | James Smallman | Philadelphia, Pa. | Aug. 29, 1815 |
| Do steam | G. W. Long | Old Point Comfort, Va. | Feb. 16, 1826 |
| Do do boiler | Alfred Judson | Sweden, N. Y. | Feb. 24, 1827 |
| Do do | P. Bernard & T. Soper | Whitestown, N. Y. | Jan. 16, 1811 |
| Reconductor, the | John Sargeant | Vernon, N. Y. | April 23, 1816 |
| Rectifying spirits | Burgess Allison | New Jersey | May 12, 1802 |
| Do do | Do | Do | May 17, 1803 |
| Do do | Osborn Parsons | Hudson, N. Y. | June 23, 1808 |
| Do do | Abiel Pease & Saml. Bestor | Enfield, Ct. | July 27, 1812 |
| Do do by steam | Jonathan Shaw | Southport, N. Y. | June 21, 1825 |
| Do do by distillation | Robert Mauck | Gallipolis, Ohio | Dec. 7, 1829 |
| Reflector, elastic lamp | Josiah Flagg & Josiah Flagg, jr. | Boston, Mass. | May 17, 1810 |

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|---|---|---|---|
| Refrigerator | Thomas Moore | Maryland | Jan. 27, 1803 |
| Do | John W. Bronaugh and Jesse Talbot | Georgetown, D. C. | Mar. 16, 1813 |
| Do for distilleries | L. C. & P. Bodman | Baltimore, Md. | Jan. 6, 1826 |
| 45 Rosin, pine, for fuel | Richard L. Wood | Philadelphia, Pa. | Oct. 10, 1828 |
| Salt, manufacturing | John Sears | Massachusetts | Jan. 24, 1799 |
| Do do | James Fennel | Pennsylvania | Sept. 24, 1794 |
| Do do | George James | Tennessee | Nov. 16, 1796 |
| Do vats, mode of covering | Hattel Tilley | Massachusetts | Feb. 12, 1800 |
| Do manufacturing | Benj. Ellicott | Pennsylvania | May 12, 1802 |
| Do do | Valentine Peers | Virginia | Dec. 18, 1802 |
| Do do | George Hunter | Pennsylvania | Mar. 24, 1803 |
| Do do | Timothy Alden, jr. | New Hampshire | May 25, 1803 |
| Do manufacturing apparatus | Ezra Weld | Braintree, Mass. | May 16, 1804 |
| Do do | John G. Taylor | - | Nov. 13, 1805 |
| Do extracting from sea water | Standfast Smith | Suffolk, Mass. | June 12, 1806 |
| Do do do facilitating the process | Do | Do | June 12, 1806 |
| Do do do do do | Do | Do | June 12, 1806 |
| Do manufacturing | Timothy Green | New York | April 1, 1807 |
| Do do | Benj. Wheeler | Boston, Mass. | April 17, 1809 |
| Do do | Do | Do | Mar. 28, 1810 |
| Do do fine from coarse | Chas. W. Sellers | Alexandria, D. C. | Oct. 11, 1811 |
| Do do | Ambrose Dudley | King William co., Va. | Mar. 31, 1812 |
| Do apparatus for boiling | John J. Cabell | Lynchburg, Va. | May 28, 1813 |
| Do furnace and boilers | Samuel Anthony | Do | May 29, 1813 |
| Do manufacturing | Wm. J. Lewis | - | Feb. 1, 1814 |
| Do do | Thomas Hord | Caroline co., Va. | April 8, 1814 |
| Do water evaporator | Wm. M. Hawkins | King & Queen co., Va. | April 23, 1814 |
| Do apparatus | Wm. and John D. Hawkins | Raleigh, N. C. | May 26, 1814 |

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Salt, manufacturing, boring wells, and pumping water - | Richard Deering - | - - - | May 28, 1814 |
| Do do - - - - - | John J. Cabell - | Lynchburg, Va. - | June 10, 1814 |
| Do do - - - - - | Peter Sarchet, sr. - | Cincinnati, Ohio - | Sept. 27, 1814 |
| Do do and salt boilers - - - | Isaac W. Averill - | Salina, N. Y. - | Nov. 5, 1814 |
| Do do - - - - - | Wm. J. Lewis - | - - - | Feb. 1, 1816 |
| Do do and apparatus for boiling - - | Alexander Black - | Barnstable, Mass. - | April 4, 1816 |
| Do works, plan for erecting - - - - | David Thacher - | Tuckerton, N. J. - | Oct. 24, 1816 |
| Do water, mode of obtaining - - - - | David & Jos. Ruffner | Kenawha, Va. - | Jan. 18, 1817 |
| Do manufacturing - - - - - | Everard Hall - | Princess Ann, Va. - | Nov. 14, 1817 |
| Do kettles for boiling - - - - - | Jer. Kendall - | Fayette co., Pa. - | Mar. 18, 1818 |
| Do manufacturing common - - - - | George Munger - | New Haven, Ct. - | June 23, 1818 |
| Do boiling - - - - - - | Osborn Parsons - | Pittsburg, Pa. - | April 4, 1820 |
| Do manufacturing - - - - - | Cadw. D. Colden - | New York - - | Dec. 14, 1822 |
| Do do fine and coarse - - - | Jos. P. Rossiter - | Salina, N. Y. - | Mar. 2, 1824 |
| Do do - - - - - | Peter Cooper - | New York - - | Dec. 24, 1824 |
| Do do - - - - - | Daniel Gerard - | Clay co., Ken. - | Jan. 28, 1825 |
| Do manufacturing by steam - - - - | Benjamin Barlow - | Geddes, N. Y. - | June 25, 1825 |
| Do do from sea water or springs - - | Wm. Barker - | Smithfield, R. I. - | July 20, 1825 |
| Do do - - - - - - | Calvin Guiteau - | Geddes, N. Y. - | Sept. 9, 1825 |
| Do do by steam - - - - | Stephen T. Conn - | Georgetown, D. C. - | July 12, 1826 |
| Do do - - - - - - | Benijah Byington - | Salina, N. Y. - | Feb. 21, 1827 |
| Do do - - - - - - | J. A. Teissier - | Boston, Mass. - | Jan. 13, 1829 |
| Do do - - - - - - | Do - | Do - | April 11, 1829 |
| Do do - - - - - - | H. J. Tudor - - | Do - | April 29, 1829 |

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|---|---|---|---|
| Do do by application of escape heat from steam engines | Alexander Browne | Salina, N. Y. | June 11, 1829 |
| Screen, fire | Caleb Pierce | Salem, Mass. | April 29, 1829 |
| Screw, swivel, for steam engines | Abel W. Hardenbrook | New York | Feb. 10, 1807 |
| Sliders instead of valves in working steam engines | John Stevens | Hoboken, N. J. | Mar. 16, 1816 |
| Smoke conductor | John C. Teale | New York | Sept. 11, 1810 |
| Do consumption of | John Acoff | Wheeling co., Va. | Mar. 5, 1818 |
| Spirits, ardent, obtaining from lime | James Hall | - - | Nov. 22, 1815 |
| Do do from corn and corncobs | Jos.& Stinson Demund | New Jersey | Jan. 17, 1816 |
| Spirit proof | Benjamin Miller | North Salem, N. Y. | Feb. 21, 1814 |
| Spit turner | Samuel Morey | Oxford, N. H. | Jan. 26, 1793 |
| Steam, application of to work bellows | John Stevens, jr. | Bergen co., N. J. | Aug. 26, 1791 |
| Do do | Samuel Morey | Oxford, N. H. | Mar. 25, 1795 |
| Do do to water | Do | Do | Mar. 27, 1799 |
| Do obtaining force from water by | Do | Do | Nov. 17, 1800 |
| Do applied to propelling boats | Ralph Letton | Albany, N. Y. | Aug. 29, 1810 |
| Do do do do | James Rodgers | Do | Sept. 27, 1811 |
| Do do to give constant motion | Marcus B. Parmelee | Newtown, Ct. | Aug. 25, 1812 |
| Do do to move machinery | Samuel Briggs | New Orleans | May 28, 1817 |
| Do waste applied to distillation | John H. Morton, T. Bovly & R. Huston | Lexington, Ky. | April 28, 1818 |
| Do application | Aaron N. Subin | Frankfort, Ky. | Dec. 30, 1820 |
| Do do to blast furnaces | Cotton Foss | Madison, O. | Aug. 2, 1826 |
| Do do and working twice over | Joseph H. Laning | Nashville, Tenn. | Aug. 12, 1826 |
| Do do supplying a uniform quantity | Isaac Doolittle | Bennington, Vt. | June 1, 1827 |
| Do do | Joseph Skinner | Mantua, O. | Mar. 14, 1828 |
| Do do and use of | E. Packard and J. E. Strong | Granville, N. Y. | Aug. 7, 1829 |
| Do do rotary motion | Joseph Mount | Nashville, Ten. | July 16, 1829 |
| Do do to machinery | Michael Musselman | Phelps, N. Y. | Dec. 29, 1825 |
| Steam engine | James Rumsey | Barkeley co. Va. | Aug. 26, 1791 |

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Steam engine, improvement on Savary's - - | Englehart Cruse - | Baltimore, Md. - | Aug. 26, 1791 |
| Do do do do - - | John Stevens, jr. - | Bergen co., N. J. - | Aug. 26, 1791 |
| Do do double - - - - - | James Smallman and N. J. Roosevelt - | - - - | May 31, 1798 |
| Do do - - - - - - | Samuel Briggs - | Georgia - - | Oct. 9, 1802 |
| Do do - - - - - - | Samuel Morey, Rufus Graves, and Giles Richards - | Massachusetts - | June 15, 1803 |
| Do do - - - - - - | Oliver Evans - | Philadelphia, Pa. - | Feb. 14, 1804 |
| Do do for boats, mills, &c. - - - | Daniel French - | New York - - | Oct. 12, 1809 |
| Do do and boiler - - - - | John Stevens - | Do - - | Jan. 3, 1810 |
| Do do for boats and vessels - - - | Robert Fulton - | Do - - | Feb. 9, 1811 |
| Do do or vaporem machine - - - | James Stubbs and Nathaniel Parsons - | Chillicothe, O. - | Feb. 25, 1811 |
| Do do constructing for propelling boats - | John Stephens - | New York - - | May 21, 1811 |
| Do do pendulum - - - - | Jno. Staples - - | Richmond, Va. - | July 18, 1811 |
| Do do - - - - - - | Daniel Dod - - | New York - - | Nov. 29, 1811 |
| Do do - - - - - - | Junia Curtis - | Plymouth, N. Y. - | Feb. 8, 1812 |
| | Royal Yeaman - | Westfield, Mass. - | |
| Do do revolving, and propelling boats by poles | Mellen Battle - | Herkimer, N. Y. - | Mar. 27, 1812 |
| Do do - - - - - - | Daniel Dod - - | Elizabethtown, N. J. | May 12, 1812 |
| Do do horizontal - - - - | Jac. W. Sexton - | Burlington, N. J. - | July 18, 1812 |
| Do do - - - - - - | Alex'r Anderson - | Philadelphia, Pa. - | Aug. 21, 1812 |
| Do do - - - - - - | James D. Russell - | Washington, N. C. - | April 10, 1813 |

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|---|---|---|---|---|---|
| Do | do | - - - - - - | Samuel Briggs and Andrew Steele - | Baton Rouge, La. - | May 29, 1813 |
| Do | do | and application of steam - - | Francis B. Ogden - | Essex, N. J. - | Dec. 31, 1813 |
| Do | do | and steamboats - - - | John Dowers, jr. - | Philadelphia, Pa. - | April 23, 1814 |
| Do | do | - - - - - - | Charles Reynolds - | East Windsor, Ct. - | July 23, 1814 |
| Do | do | - - - - - - | Borden Wilbor - | Whitestown, N. Y. - | April 26, 1815 |
| Do | do | - - - - - - | Samuel Morey - | Boston, Mass. - | July 14, 1815 |
| Do | do | - - - - - - | Junia Curtis - - | Baltimore, Md. - | Aug. 8, 1815 |
| Do | do | - - - - - - | Matthew Cluff - | Norfolk, Va. - | Sept. 1, 1815 |
| Do | do | - - - - - - | John Stevens - | Hoboken, N. J. - | Mar. 14, 1816 |
| Do | do | - - - - - - | Enoch Burt - - | Elizabethtown, N. J. | May 12, 1816 |
| Do | do | - - - - - - | Do - - | Do - | June 25, 1816 |
| Do | do | - - - - - - | John Hilton - - | Somerset, Me. - | Aug. 22, 1816 |
| Do | do | - - - - - - | Samuel Fairlamb - | Marietta, O. - - | Oct. 24, 1816 |
| Do | do | applied to navigation - - - | Edward Rumsey - | Kentucky - - | Nov. 15, 1816 |
| Do | do | rotary - - - - - | Isaiah Jennings - | New York - - | Jan. 17, 1817 |
| Do | do | do - - - - - | Nathan Read - | Boston, Mass. - | Feb. 21, 1817 |
| Do | do | - - - - - - | John L. Sullivan - | Do - | Mar. 24, 1817 |
| Do | do | - - - - - - | John Heavin - | Virginia - - | Aug. 27, 1817 |
| Do | do | - - - - - - | Israel J. Richardson - | Geneva, N. Y. - | Oct. 13, 1817 |
| Do | do | - - - - - - | Beardesley Hendryx & Halstead Price - | Springfield, N. Y. - | April 13, 1818 |
| Do | do | - - - - - - | Joseph Eve - - | Augusta, Ga. - | May 28, 1818 |
| Do | do | - - - - - - | Wm. Church - | Baltimore, Md. - | July 11, 1818 |
| Do | do | rotary - - - - - | John L. Sullivan - | Boston, Mass. - | Dec. 10, 1818 |
| Do | do | do - - - - - | Antoine Batby - | New York - | May 26, 1819 |
| Do | do | - - - - - - | Robert Thomas - | Richmond co., N. C. - | May 29, 1819 |
| Do | do | raising the power without increasing the quantity of steam - - - | Charles Leeke - | Ross co., O. - - | Jan. 22, 1820 |
| Do | do | - - - - - - | Minus Ward - | Columbia, S. C. - | Mar. 23, 1821 |
| Do | do | vibrating - - - - | Phineas Davis - | York, Pa. - - | Feb. 17, 1821 |

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Steam engine, rotary, shifting piston - - - | J. Lansing and A. Thayer, jr. - | Albany, N. Y. - | Jan. 19, 1822 |
| Do do - - - - - - | Thomas Hatton - | Philadelphia, Pa. - | Feb. 28, 1822 |
| Do do rotary - - - - - | Dudley L. Farnam - | Albany, N. Y. - | Feb. 19, 1823 |
| Do do - - - - - - | Amos Thayer, jr. - | New York - - | Mar. 6, 1823 |
| Do do rotary - - - - - | James Thomson - | Pittsburg, Pa. - | July 16, 1823 |
| Do do do reacting - - - | R. N. Powers - | Cincinnati, O. - | April 29, 1824 |
| Do do - - - - - - | Ralph Bulkley - | New York - - | April 30, 1824 |
| Do do - - - - - - | Henry Lainhart, jr. - | New Orleans - | May 6, 1824 |
| Do do rotary - - - - - | Anthony Cooley - | Le Roy, N. Y. - | July 29, 1824 |
| Do do do - - - - - | John Gilbert - - | Do - | Nov. 17, 1824 |
| Do do - - - - - - | I. Jennings - - | New York - - | Mar. 15, 1825 |
| Do do rotary - - - - - | Elisha Hale - - | Pomfret, N. Y. - | May 20, 1825 |
| Do do power wheel - - - - | John A. Wadsworth | Portsmouth, R. I. - | Sept. 27, 1825 |
| Do do - - - - - - | William Avery and Hiram Scoville - | Pompey, N. Y. - | Sept. 30, 1825 |
| Do do rotary - - - - - | J. R. Averill and F. Hoard - | Rochester, N. Y. - | Nov. 12, 1825 |
| Do do circulating - - - - | Tim. Beach - | Deer creek, O. - | Nov. 16, 1825 |
| Do do - - - - - - | George Deming - | Niagara, N. Y. - | Mar. 10, 1826 |
| Do do rotary - - - - - | S. Fairlamb and E. Bruce, jr. - | New York - - | May 25, 1826 |
| Do do - - - - - - | Jos. Eve - - | London, Eng. - | Aug. 16, 1826 |
| Do do - - - - - - | Elisha Bigelow - | Baltimore, Md. - | Nov. 6, 1826 |
| Do do rotary - - - - - | Elijah H. Read - | Lancaster, Ky. - | Nov. 10, 1826 |

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|---|---|---|---|---|---|
| Do | do | two cylinder, atmospheric - - | William Willis - | Charleston, S. C - | Nov. 14, 1826 |
| Do | do | - - - - - - | Eb. A. Lester - | Boston, Mass. - | May 14, 1827 |
| Do | do | - - - - - - | John Maynard - | Ovid, N. Y. - | June 15, 1827 |
| Do | do | rotary wheel - - - - | Frs. Harris - - | Albany, N. Y. - | July 10, 1827 |
| Do | do | - - - - - - | Warren P. Wing - | Greenwich village, Ms. | Aug. 17, 1827 |
| Do | do | - - - - - - | Sim. Broadmeadow - | New York - - | Jan. 29, 1828 |
| Do | do | anti-steam power - - - | William Willis - | Charleston, S. C. - | Feb. 1, 1828 |
| Do | do | high pressure, safety - - - | Isaiah Jennings - | New York - - | Feb. 11, 1828 |
| Do | do | specific - - - - - | Aug. S. Kirk - | Smithfield town'p, O. | Feb. 13, 1828 |
| Do | do | changing rectilineal to rotary motion in - | Peter Cooper - | New York - - | April 28, 1828 |
| Do | do | attaching tubes to - - - | Gideon Freeborn - | Do - | July 8, 1828 |
| Do | do | rotary - - - - - | Stillman Blake - | Providence, R. I. - | Oct. 11, 1828 |
| Do | do | do double rack and twin wheels - | Jos. Woodhull - | Rochester, N. Y. - | April 6, 1829 |
| Do | do | hydraulic - - - - - | John Catlin - - | Cincinnati, O. - | June 11, 1829 |
| Do | do | rotary - - - - - | D. B. Lee & S. Stewart | Philadelphia, Pa. - | June 11, 1829 |
| Do | do | avoiding the dead point - - - | Valentine Carter - | Georgetown, D. C. - | Aug. 3, 1829 |
| Do | do | - - - - - | Mellen Battle - | Albany, N. Y. - | Nov. 6, 1829 |
| Do | do | - - - - - | James Rumsey - | Berkeley co., Va. - | Aug. 26, 1791 |
| Do | do | or producing - - - - | John Stevens - | New York - - | April 11, 1803 |
| Do | do | - - - - - | Jos. Hawkins - | Do - - | June 14, 1816 |
| Do | do | - - - - - | H. Betts and J. A. McLean - | Norwalk, Ct. - | Dec. 24, 1823 |
| Do | do | - - - - - | Jos. Dixon, jr. - | Philadelphia, Pa. - | April 13, 1824 |
| Do | do | high temperature - - - | John Babcock - | Portsmouth, R. I. - | May 1, 1824 |
| Do | do | - - - - - | D. B. Lee - | Philadelphia, Pa. - | June 9, 1824 |
| Do | do | - - - - - | Jos. Buchanan - | Lexington, Ky. - | Sept. 13, 1824 |
| Do | do | and applying - - - - | Stephen T. Conn - | Washington, D. C. - | Sept. 29, 1824 |
| Do | do | and condensing - - - | B. F. Joslin - | Schenectady, N. Y. - | Dec. 16, 1824 |
| Do | do | - - - - - | Mahlon Betts - | Wilmington, Del. - | Nov. 26, 1825 |
| Do | do | and applying - - - - | Stephen T. Conn - | New York - - | Nov. 29, 1825 |
| Do | do | - - - - - | John McCurdy - | London, Eng. - | July 1, 1826 |

## LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Steam generating (patented Nov. 18th, 1825) - - | Stephen T. Conn - | Washington, D. C. - | July 20, 1826 |
| Do do by anthracite coal - - - | D. Collings and J. D. Gallup - - | Wilkesbarre, Pa. - | Oct. 12, 1826 |
| Do do - - - - - - | Daniel Phelps - | Bath, N. Y. - | Nov. 14, 1826 |
| Do do - - - - - - | Levi Silliman - | Albany, N. Y. - | Jan. 19, 1827 |
| Do do tubular generator - - - | R. R. Throckmorton | New York - | Jan. 17, 1828 |
| Do do gas or vapor - - - | Eb. A. Lester - | Boston, Mass. - | Mar. 10, 1828 |
| Do jack - - - - - - | John Bailey - | Do - - | Feb. 23, 1792 |
| Do engine, curve tube water wheel - - | Elijah Bryan - | New York - - | April 8, 1829 |
| Do shooting with - - - - - | Samuel Morey - | Oxford, N. H. - | Jan. 19, 1819 |
| Do syphonic machine - - - - | John Poole - | - - - | Oct. 13, 1801 |
| Do wheels, improvement on Rumsey's - - | Edward Rumsey, executor of James - | Kentucky - - | Nov. 15, 1816 |
| Do do - - - - - - | Amos Thayer, jr. - | Albany, N. Y. - | Aug. 8, 1821 |
| Stills, steam - - - - - - | Alex. Anderson - | Pennsylvania - | Sept. 2, 1794 |
| Do - - - - - - | John Kincaid - | Do - - | Nov. 25, 1794 |
| Do - - - - - - | Michael Crafft - | Do - - | Oct. 28, 1801 |
| Do - - - - - - | William Paine - | Do - - | Aug. 24, 1802 |
| Do - - - - - - | John Staples - | Virginia - - | Dec. 15, 1802 |
| Do - - - - - - | John Moffitt - | New York - - | Feb. 1, 1803 |
| Do - - - - - - | Lewis Geauty - | Maryland - - | Aug. 4, 1803 |
| Do or boiler - - - - - - | Leonard Beatty - | New York - - | Jan. 19, 1804 |
| Do and distilling - - - - - | William Wigton - | New Jersey - - | Jan. 30, 1804 |
| Do and large kettles, setting - - - | Israel Wood - | Massachusetts - | Feb. 21, 1804 |
| Do heads - - - - - - | Edw. Richardson - | Pennsylvania - | Dec. 16, 1803 |

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|---|---|---|---|---|
| Do | and boilers | John Naylor | Richmond, Va. | Mar. 31, 1804 |
| Do | | Stephen Steward | Walpole, N. H. | June 28, 1807 |
| Do | condenser | Thomas O. Conner | New York | July 9, 1807 |
| Do | | Edw. Richardson | Fredericktown | Oct. 3, 1807 |
| Do | | William Thornton | Washington, D. C. | Dec. 13, 1807 |
| Do | and rotative steam engines | Stedman Adams | Hartford, Ct. | Nov. 21, 1808 |
| Do | tub | Isaac Bennitt | Newtown, Ct. | Dec. 12, 1808 |
| Do | and evaporator, perpetual | Rob. Gillespie | Seneca co., N. Y. | April 2, 1810 |
| Do | steam, and water boiler | Phares Bernard | Whitestown, N. Y. | Nov. 17, 1810 |
| Do | double, perpetual | John J. Giraud | Baltimore, Md. | Dec. 22, 1810 |
| Do | steam, perpetual, and water boiler | Philo M. Hackley | Herkimer co., N. Y. | Jan. 11, 1811 |
| Do | do and water boiler | Phares Bernard | Whitestown, N. Y. | Jan. 16, 1811 |
| Do | do do do | Borden Wilbor and Tim. Soper | Washington co., N. Y. | Feb. 4, 1811 |
| Do | do | Samuel Bacon | Lanesborough, Mass. | Feb. 9, 1811 |
| Do | do perpetual | John J. Giraud | Baltimore, Md. | May 15, 1811 |
| Do | and condenser | Richard Sealy | Newark, N. J. | July 25, 1811 |
| Do | and boilers | Jac. Decker | Green, N. Y. | Sept. 2, 1811 |
| Do | | Henry Wittmer | Lancaster, Pa. | Sept. 19, 1811 |
| Do | head, quilted clothing for copper | Charles Jenks | E. Windsor, Ct. | April 25, 1812 |
| Do | wooden | Do | Do | April 25, 1812 |
| Do | | Hiram Whitcomb | Cornwall, Ct. | Nov. 24, 1812 |
| Do | | John J. Giraud | Baltimore, Md. | June 26, 1813 |
| Do | | Chs. F. Fisher | York, Pa. | July 12, 1813 |
| Do | wooden and distilling | John J. Giraud | Baltimore, Md. | Aug. 3, 1813 |
| Do | and furnaces, setting | Ab. Gibbs | Lancaster, Pa. | Aug. 31, 1813 |
| Do | and condensing tub | James Wheatley | Fauquier co., Va. | Nov. 13, 1813 |
| Do | steam and water boiler | Tim. Soper, jr., and Charles Reynolds | Hartford, Ct. | Dec. 2, 1813 |
| Do | do perpetual | John J. Giraud | Baltimore, Md. | Mar. 24, 1814 |
| Do | and condenser | Benjamin Hall | New Haven, Ct. | May 13, 1814 |

LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Still | Ezra Talmage | Richmond, Va. | April 9, 1814 |
| Do steam or stove | John Stone, jr. | Worthington, Mass. | Dec. 8, 1814 |
| Do | Rob. Gillespie | Seneca, N. Y. | Jan. 31, 1815 |
| Do boiler and worm | Thomas Weston | Peacham, Vt. | Feb. 13, 1815 |
| Do | Jos. White | Baltimore, Md. | Jan. 15, 1816 |
| Do | Montg'y Stevens | New York | June 17, 1816 |
| Do steam, and water boiler | Stephen Stitwell | Bainbridge, N. Y. | June 14, 1820 |
| Do perpetual proof | Baltazar J. Kellenback | Philadelphia, Pa. | Aug. 6, 1821 |
| Do | Do | Do | Oct. 17, 1822 |
| Do worm | Chester Cooke | Paris, N. Y. | Jan. 11, 1823 |
| Do steam | James G. Foley | Harrisburg, Pa. | Feb. 23, 1826 |
| Do | Edm'd Capen | Boston, Mass. | Jan. 17, 1827 |
| Do | Malcolm McGregor | New York | June 15, 1827 |
| Do boilers, kettles, &c., setting | John Miller and B. Clements | Clemmonsville, N. C. | June 24, 1828 |
| Stone ware, burning without salt | Sanford S. Perry | Troy, N. Y. | Sept. 12, 1826 |
| Stoves, cast iron | Robert Hetterick | Pennsylvania | June 11, 1793 |
| Do | James McCallmont | - - - | Feb. 20, 1797 |
| Do | Thomas Hirst | Pennsylvania | Mar. 11, 1797 |
| Do | Caleb Wheaton | Massachusetts | Mar. 29, 1797 |
| Do soapstone | William Payne | - - - | Dec. 10, 1797 |
| Do | John W. Godfrey & William Lane | - - - | July 14, 1798 |
| Do for coal | Henry Abbett | Pennsylvania | Jan. 24, 1799 |
| Do and grates | Oliver Evans | Do | Jan. 16, 1800 |

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|---|---|---|---|
| Do | William Henderson | Connecticut | Feb. 12, 1801 |
| Do for drying grain | David Ellicott | Maryland | May 1, 1801 |
| Do | Henry Abbett | Pennsylvania | May 4, 1802 |
| Do | Samuel Dickey | Oxford, Pa. | Mar. 7, 1806 |
| Do or caboose, for cooking and distilling | George Youle | New York | May 21, 1806 |
| Do manufacturing pipes for | Richard Wheatley & James Beaumont | Boston, Mass. | Nov. 4, 1807 |
| Do open | John F. Gould | Newburyport, Mass. | Feb. 1, 1808 |
| Do for heating rooms | Allen Pollock | Boston, Mass. | June 17, 1808 |
| Do do do | Do | Do | June 30, 1808 |
| Do rarifying air for warming rooms | Daniel Pettibone | Roxbury, Ct. | Oct. 28, 1808 |
| Do | James Fales | Newport, R. I. | Feb. 22, 1809 |
| Do pipes | John Parkhurst, jr. | Cheshire, N. H. | Feb. 13, 1810 |
| Do | Augustus Graham | Fredericktown, Md. | Nov. 6, 1810 |
| Do | William Watson | Weymouth, N. J. | Mar. 2, 1811 |
| Do kitchen | Andrew Sherwood | New York | April 25, 1811 |
| Do drum, cooking | Do | Do | April 25, 1811 |
| Do steam, cooking | Josiah Noyes | Herkimer, N. Y. | June 21, 1811 |
| Do | Thomas Power | New York | Sept. 27, 1811 |
| Do cooking | Jona. Low | Fitchburg, Mass. | Feb. 24, 1812 |
| Do | Nich. Lloyd | Philadelphia, Pa. | Feb. 29, 1812 |
| Do stone, fire proof | Abm. H. Quincy | Boston, Mass. | May 21, 1812 |
| Do foot, stone heater | Do | Do | June 13, 1812 |
| Do for heating water, and for washing clothes | Thomas Woolsen | Amherst, N. H. | July 3, 1812 |
| Do parlour, fireplace | William Lankester | Boston, Mass. | Nov. 24, 1812 |
| Do open | Jos. Howe and Wm. Lankester | Do | Nov. 25, 1812 |
| Do and boilers | Gab. N. Phillips | Goshen, N. Y. | Feb. 6, 1813 |
| Do kitchen | John Spencer | Albany, N. Y. | Feb. 8, 1813 |
| Do | Alfred Janes | Hartford, Ct. | Mar. 1, 1813 |
| Do boiling | Henry Abbett | Philadelphia, Pa. | Mar. 30, 1813 |

## LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Stoves - - - - - - | George Warrall - | Philadelphia, Pa. - | Mar. 30, 1813 |
| Do spiral - - - - - - | Robert Roy - | Warwick, N. Y. - | Nov. 13, 1813 |
| Do eleven plate - - - - - | Charles Postley - | New York - | Mar. 7, 1814 |
| Do baking, boiling, and steaming - - - | Eliphalet B. Coleman | New Haven, Ct. - | May 13, 1814 |
| Do family - - - - - - | Jos. Tuley - | Frederick co., Va. - | May 17, 1814 |
| Do chimney - - - - - - | Charles Varlé - | Fredericktown, Md. | July 1, 1814 |
| Do - - - - - - | William T. James - | Union Village, N. Y. | April 26, 1815 |
| Do - - - - - - | Charles Postley - | New York - - | April 26, 1815 |
| Do - - - - - - | Aaron Lane - | - - - | May 11, 1818 |
| Do boiling and steam - - - - | Erastus Warner - | - - - | Sept. 12, 1815 |
| Do economical - - - - - | John Graham - | New York - - | Nov. 9, 1815 |
| Do foot - - - - - - | Allen Greely - | Oxford, Mass. - | Dec. 23, 1815 |
| Do - - - - - - | Comfort Barney - | Warren, R. I. - | Dec. 27, 1815 |
| Do Franklin - - - - - | James Willson - | Poughkeepsie, N. Y. | Mar. 9, 1816 |
| Do cooking, and other - - - - | Chris'r Hoxie - | Hudson, N. Y. - | May 3, 1816 |
| Do - - - - - - | Eliakim Cory - | Milton, N. Y. - | May 30, 1816 |
| Do Franklin - - - - - | John F. Van Sicler - | Poughkeepsie, N. Y. | July 3, 1816 |
| Do - - - - - - | Thos. & Isaac Power | Hudson, N. Y. - | Aug. 31, 1816 |
| Do - - - - - - | Henry F. Leibenau - | New York - - | Sept. 7, 1816 |
| Do - - - - - - | James Ross - | Elizabethtown, N. J. | Dec. 3, 1816 |
| Do Franklin - - - - - | George W. Brown - | - - - | Dec. 6, 1816 |
| Do rarifying chimney - - - - | George Rogers - | Northampton, Mass. | Dec. 18, 1816 |
| Do - - - - - - | Anthony B. Martin - | Hagerstown, Md. - | Dec. 26, 1816 |
| Do cast iron cooking - - - - | Albertus Swain - | Hudson, N. Y. - | Feb. 1, 1817 |
| Do - - - - - - | Jos. P. Simpson - | New York - | April 5, 1817 |

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|---|---|---|---|
| Do | Ephraim Treadwell | Boston, Mass. | April 26, 1817 |
| Do fireplace and oven | John Rice | Hartland, Vt. | Dec. 6, 1817 |
| Do do | John H. Lotz | Salisbury, Ct. | Mar. 18, 1818 |
| Do | Burgess Allison | Philadelphia, Pa. | April 10, 1818 |
| Do | Robert & John Mount | New York | April 11, 1818 |
| Do cooking | John Adams | Do | April 16, 1818 |
| Do do | James Lamb | Berlin, Ct. | July 17, 1818 |
| Do | Aaron Lane | New York | Sept. 15, 1818 |
| Do pipes | John Cudlipp & Geo. Price | Baltimore, Md. | Nov. 18, 1818 |
| Do leading flame in by wire gauze | Samuel Morey | Oxford, N. H. | Jan. 20, 1819 |
| Do cooking | Palmer Jenkins | Hepborn, N. Y. | Feb. 6, 1819 |
| Do do | Israel Keyes | Putney, Vt. | Feb. 23, 1820 |
| Do stills and boilers | John J. Giraud | Baltimore, Md. | April 19, 1820 |
| Do cooking | Nathan Winslow | Portland, Me. | May 3, 1820 |
| Do or fireplaces, circular, open | Richard Berrian and Francis Class | New York | Aug. 31, 1820 |
| Do bottom boiler | Benjamin Simonds, jr. | Bedford, Mass. | Oct. 15, 1821 |
| Do cooking | Philologus Holley | Red Hook, N. Y. | Mar. 1, 1822 |
| Do open | John J. Pierce | Springfield, Mass. | Mar. 11, 1822 |
| Do pipe | William W. Weaver | Philadelphia, Pa. | April 16, 1822 |
| Do and fireplaces | Lemuel Hitchcock | Weathersfield, Vt. | May 4, 1822 |
| Do | James Barron | Norfolk, Va. | May. 14, 1822 |
| Do | B. Seymour & A. C. Battis | Utica, N. Y. | May 25, 1822 |
| Do for burning Lehigh coal | Robert McMinn | Philadelphia, Pa. | June 24, 1822 |
| Do do do | Philip S. Mingle | Do | Oct. 24, 1822 |
| Do foot | Julia Plantou | Do | Nov. 4, 1822 |
| Do | John Tasker | Do | Feb. 3, 1823 |
| Do pipes | Caleb Jones | Burlington, Vt. | April 5, 1823 |
| Do for burning stone coal | George J. Fougeray | Philadelphia, Pa. | Sept. 11, 1823 |

## LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Stoves | Louis Gourjou | Philadelphia, Pa. | Sept. 22, 1823 |
| Do cooking | John Conant | Brandon, Vt. | Dec. 13, 1823 |
| Do Columbian | Joshua Talcot & John McCulloch | Smyrna, N. Y. | Jan. 26, 1824 |
| Do Franklin and cooking | James Wilson | New York | Mar. 13, 1824 |
| Do box hearths | William T. James | Do | April 23, 1824 |
| Do pipes | John Colby | Salisbury, Mass. | Feb. 16, 1825 |
| Do cooking and Franklin united | Thomas Wentworth | Oswego, N. Y. | May 18, 1825 |
| Do for Lehigh coal | John Lovatt | Philadelphia, Pa. | June 16, 1825 |
| Do cooking | David Little | Hagerstown, Md. | Feb. 1, 1826 |
| Do do domestic | Jos. R. Page | Philadelphia, Pa. | Mar. 24, 1827 |
| Do air funnel | Hiram Wales | Randolph, Mass. | May 18, 1827 |
| Do foot, cast iron | George W. Robinson | New York | June 2, 1827 |
| Do cooking | Robert C. Rouse | Athens, N. Y. | Jan. 26, 1828 |
| Do chimneys, furnaces, and steam engines | John J. Giraud | Baltimore, Md. | Feb. 10, 1828 |
| Do cooking | D. G. Garnsey | Pomfret, N. Y. | Mar. 3, 1828 |
| Do do | Abm. Fisher | Claremont, N. H. | May 9, 1828 |
| Do Franklin | Wm. Cowan | Watertown, N. Y. | June 16, 1828 |
| Do premium railway cooking | Peregrine Williamson | Philadelphia, Pa. | Feb. 16, 1829 |
| Do cooking | Allen J. Barnitt | Louisville, Ky. | June 11, 1829 |
| Do do | Wm. Naylor | New York | June 11, 1829 |
| Do do for Lehigh coal | C. Shermerhorn | Do | June 23, 1829 |
| Do do | Ez. E. Bennet | Sandy Hill, N. Y. | July 17, 1829 |
| Do do double furnace | Josiah Richards | Claremont, N. H. | Aug. 5, 1829 |
| Do do air furnace oven | Oliver Davison | Johnstown, N. Y. | Aug. 25, 1829 |

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|---|---|---|---|
| Do do and Franklin | Geo. Richards | Providence, R. I. | Sept. 9, 1829 |
| Do do | Joseph Hurd, jr. | Boston, Mass. | Nov. 10, 1828 |
| Do do anthracite coal | William Davis and R. W. Lord | New York | Nov. 23, 1829 |
| Sugar, claying moulds | Jona. Williams, jr. | Philadelphia, Pa. | Mar. 13, 1793 |
| Do making and refining | Antoine Boucherie | Do | Jan. 8, 1808 |
| Do moulds for refining | Mervin Merrill | New York | Oct. 25, 1816 |
| Do refining | Bernard E. Verjon | Washington, D. C. | April 26, 1816 |
| Do cane, machine for grinding | John G. Breithler | New Orleans | June 13, 1818 |
| Do making from wheat, rye, &c. | James Wisehart | Wayne co., Ind. | May 25, 1819 |
| Do manufacturing | Henry Fry | Harrisburg, N. Y. | April 6, 1820 |
| Do refining, double boiler and other apparatus for | Wm. A. Archbald | New York | May 29, 1828 |
| Do do filtering apparatus | Do | Do | May 29, 1828 |
| Do manufacturing from cane juice | Eb. A. Lester | Boston, Mass. | Sept. 10, 1829 |
| Tinder box | Ira Ives | Farrington, Ct. | Oct. 25, 1816 |
| Torpedo | Eb. Ford | Baltimore, Md. | April 14, 1814 |
| Tubes for glass lamps | Deming Jarves | Cambridge, Mass. | Feb. 2, 1822 |
| Valve, safety, alarm or reverse | Wm. S. Gillett | Lower 3 Runs, S. C. | Nov. 18, 1825 |
| Do do chimney, smoke, and | Jos. H. Schreiner | Philadelphia, Pa. | July 31, 1827 |
| Do revolving, for steam boilers | Elam Young | Tate township, O. | Sept. 10, 1829 |
| Vapor bath, portable | Charles W. Peale | Pennsylvania | June 16, 1801 |
| Do condenser | Wm. Howe | Do | April 6, 1803 |
| Vaporous alembic | Charles Merot | Philadelphia, Pa. | Nov. 5, 1818 |
| Victualler, economical, improvement on the Peripurist | Benj. C. Burdett | New York | Aug. 4, 1827 |
| Vinegar and cider from offals of distilleries | Wm. Richardson | Kingston, N. Y. | Sept. 26, 1816 |
| Warming rooms | Barzillai Russell | Hartford, Ct. | Mar. 4, 1811 |
| Do do by rarified air | Daniel Pettibone | Philadelphia, Pa. | May 12, 1812 |
| Do houses, machine called the atmospherical house warmer and smoke driver | Robert Anlesly | Do | April 27, 1814 |
| Do rooms, iron back log for | Charles Harris | Boston, Mass. | May 15, 1815 |
| Do do | Wm. Baker | Springfield, N. Y. | Sept. 9, 1825 |

## LIST OF PATENTS—CALORIFIC AND STEAM APPARATUS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Warming rooms | A. McAllester and John Iggett | Salem, N. Y. | Dec. 15, 1827 |
| Washing machine for breweries and distilleries | Leonard Beatty | - - | May 17, 1816 |
| Water burner, American | John L. Sullivan | Boston, Mass. | Dec. 11, 1818 |
| Do do | Samuel Morey | Oxford, N. H. | Dec. 19, 1818 |
| Whiskey, manufacturing | Silas Smith | Genesee, N. Y. | May 23, 1815 |
| Worm, boiler | James Truman | Philadelphia, Pa. | June 24, 1809 |
| Worm, condensing, tin, sheet copper | John Taylor | Virginia | June 13, 1795 |

## LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Anderson, Alexander | Pennsylvania | Steam still | Sept. 2, 1794 |
| Abbett, Henry | Do | Stove for coal | Jan. 24, 1799 |
| Anderson, Alexander | Do | Brewing from Indian corn | Jan. 26, 1801 |
| Do | Do | Distilling condenser | Jan. 26, 1801 |
| Abbett, Henry | Do | Stove | May 4, 1802 |
| Allison, Burgiss | New Jersey | Spirits, rectifying | May 12, 1802 |
| Do | Do | Do do | May 17, 1803 |
| Alden, Timothy, jr. | New Hampshire | Salt, manufacturing | May 25, 1803 |

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|---|---|---|---|
| Ashbridge, Wm. | Pennsylvania | Caboose, iron | June 28, 1801 |
| Abraham, James | Middlesex, N. J. | Kiln for drying grain | Dec. 20, 1805 |
| Arnold, Thomas | - - | Evaporation | Mar. 5, 1806 |
| Adams, Stedman | Hartford, Ct. | Stills and rotary steam engine | Nov. 21, 1808 |
| Allison, Burgiss | Philadelphia, Pa. | Distilling spirits from cornstalks | July 6, 1809 |
| Applegate, Sam'l, Ths. Howard, and Peregrine H. Wharton | Do | Heat applied to fluids | Nov. 22, 1809 |
| Adams, Rufus W. | Marlborough, Vt. | Condensing box for wooden stills | Mar. 27, 1812 |
| Anderson, Alex'r | Philadelphia | Steam engine | Aug. 21, 1812 |
| Abbett, Henry | Do | Stove, boiling | Mar. 30, 1813 |
| Anthony, Samuel | Lynchburg, Va. | Salt, furnace and boilers for manufacturing | May 29, 1813 |
| Atwater, Caleb | Genoa, N. Y. | Heating water for tanning in cold weather | June 2, 1813 |
| Anderson, Alex'r | Philadelphia | Tub, improvement in his condensing | Oct. 27, 1813 |
| Allison, Richard, and N. S. Allison | Burlington, N. J. | Matchlights and boxes | Mar. 26, 1814 |
| Alber, John W. | Pennsborough, Pa. | Distilling | April 19, 1814 |
| Anlesly, Robert | Philadelphia, Pa. | Atmospherical house warmer and smoke driver | April 27, 1814 |
| Averill, Isaac W. | Salina, N. Y. | Salt boilers and making salt | Nov. 5, 1814 |
| Acoff, John | Wheeling co., Va. | Smoke, consumption of | Mar. 5, 1818 |
| Allison, Burgess | Philadelphia | Stove | April 10, 1818 |
| Adams, John | New York | Stove, cooking | April 16, 1818 |
| Andrews, Robert | Fleming co., Ky. | Kiln for drying all kinds of grain | Nov. 7, 1822 |
| Averill, John R. | Manchester, N. Y. | Steam boiler, cast iron | May 27, 1824 |
| Asher, David | Philadelphia | Cooking machine, portable | Feb. 18, 1825 |
| Avery, Wm. | Pompey, N. Y. | Distilling by steam | May 13, 1825 |
| Avery, William, and Hiram Levville | Do | Steam engine | Sept. 30, 1825 |
| Averill, J. R., and F. Hoard | Rochester, N. Y. | Steam engine, rotary | Nov. 12, 1829 |
| Aikin, John M. | Philadelphia | Distilling | Aug. 30, 1827 |

## LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

| NAMES OF PATENTEES | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Allaire, James P. | New York | Boilers for steam engines | May 14, 1828 |
| Archbald, Wm. A. | Do | Boiler for oil and refining sugar | May 29, 1828 |
| Do | Do | Sugar refining, double boiler and other apparatus | May 29, 1828 |
| Do | Do | Do filtering apparatus for | May 29, 1828 |
| Adams, Nathaniel, and Aaron Noyes | Newburg, Ky. | Brick, burning | Dec. 28, 1829 |
| Bailey, John | Boston, Mass. | Steam jack | Feb. 23, 1792 |
| Bachus, Elijah | Virginia | Boiler for steam engine | May 31, 1796 |
| Butler, Fred. | Connecticut | Cooking | Aug. 22, 1800 |
| Bedwell, Thos., and Ben. Henfrey | Pennsylvania | Evaporator | Feb. 12, 1801 |
| Boureau, Nich. | - | Steam kitchen for ships | Aug. 30, 1802 |
| Briggs, Samuel | Georgia | Steam engine | Oct. 9, 1802 |
| Biddis, John, & Leml. J. Kilborn | New York | Alcohol, distilling | June 4, 1803 |
| Brown, Samuel, Edw. West and Thos. West | - | Distilling by steam | July 8, 1803 |
| Beatty, Leonard | New York | Still or boiler | Jan. 19, 1804 |
| Boucherie, Antoine | Philadelphia | Sugar, making and refining | Jan. 8, 1808 |
| Barnum, Eli, & Ben. Brooks | New Marlboro', Mass. | Distilling or boiling water | Mar. 21, 1808 |
| Do | Do | Do | July 13, 1808 |
| Bennitt, Isaac | Newtown, Ct. | Still tub | Dec. 12, 1808 |
| Bolton, Samuel | Philadelphia | Liquids, heating machine | Jan. 16, 1809 |

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|---|---|---|---|
| Boucherie, Antoine | Do | Distilling apparatus | Jan. 30, 1809 |
| Do | Do | Gin cordial | Jan. 31, 1809 |
| Barnitt, John | Upper Providence, Pa. | Ovens | Mar. 3, 1809 |
| Bolton, Samuel | Philadelphia, Pa. | Pipe or grate boiler or heater | July 7, 1809 |
| Bennett, John M. | Middletown, Ct. | Distilling by steam | May 1, 1810 |
| Bernard, Phares | Whitestown, N. Y. | Still, steam, and water boiler | Nov. 17, 1810 |
| Do | Do | Do do | Jan. 16, 1811 |
| Bernard, Phares, and Tim. Loper | Do | Steam pump | Jan. 16, 1811 |
| Bacon, Samuel | Lanesborough, Mass. | Still, steam | Feb. 9, 1811 |
| Blanche, Noel | New York | Condensation of vapors in distilling | Mar. 2, 1811 |
| Bouis, John | Baltimore, Md. | Steam cooking apparatus | Jan. 6, 1812 |
| Battle, Mellen | Herkimer co., N. Y. | Revolving steam engines and propelling boats by poles | Mar. 27, 1812 |
| Baron, Wm. A. | New York | Fumiductors | Sept. 10, 1812 |
| Bouis, John | Baltimore, Md. | Oven for baking | Dec. 30, 1812 |
| Do | Do | Caboose | Dec. 3, 1812 |
| Bates, John | Hartford, Ct. | Distilling | Jan. 26, 1813 |
| Bronaugh, John W., & Jesse Talbot | Georgetown, D. C. | Refrigerator | Mar. 16, 1813 |
| Briggs, Saml., & And. Steele | Baton Rouge, La. | Engine, steam | May 29, 1813 |
| Belden, Thomas | Hartford, Ct. | Distilling, heating liquor, &c., for | Aug. 18, 1813 |
| Brush, John C. | Washington City, D. C. | Fireplaces, chimneys, &c. | Jan. 28, 1814 |
| Barnhurst, Thomas, & John & Wm. Walker | Philadelphia | Furnace for melting and refining metals | May 4, 1814 |
| Bruff, John | Baltimore | Chimneys, machine for cleaning | Dec. 16, 1814 |
| Brown, Enos | Oneida co., N. Y. | Distilling, generating steam for | Jan. 23, 1815 |
| Bartholomew, Erastus, and Wm. Church | Boston, Mass. | Fireplace, defiance | Aug. 19, 1815 |
| Barney, Comfort | Warren, R. I. | Stove | Dec. 27, 1815 |
| Burrall, Edw. | Canaan, Ct. | Heat of a furnace applied to steam engines, spare | Jan. 31, 1816 |

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS.—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Black, Alex. | Barnstable, Mass. | Salt, apparatus for boiling and making | April 4, 1816 |
| Burt, Enoch | Elizabethtown, N. J. | Steam engine | May 12, 1816 |
| Beatty, Leonard | - | Washing machine for breweries and distilleries | May 17, 1816 |
| Burt, Enoch | Elizabethtown, N. J. | Steam engine | June 25, 1816 |
| Blood, Amos | Boston, Mass. | Distilling apparatus | July 16, 1816 |
| Brown, George W. | - | Stove, Franklin | Dec. 6, 1816 |
| Briggs, Samuel | New Orleans | Steam applied to move machinery | May 28, 1817 |
| Black, Alex. | Barnstable, Mass. | Lamps | Oct. 3, 1817 |
| Breithler, John G. | New Orleans | Sugar cane machine for grinding | June 13, 1818 |
| Barker, Thomas E. | Green co., N. Y. | Stove boiler, upright | Feb. 19, 1819 |
| Baltry, Antoine | New York | Steam engine, rotary | May 26, 1819 |
| Brush, John C. | Washington, D. C. | Fireplaces, close and open | Aug. 19, 1819 |
| Berrian, Richard, and Francis Class | New York | Stove or fireplace, circular open | Aug. 31, 1820 |
| Bulkley, Ralph | Do | Firemen, machine for protecting | Mar. 29, 1821 |
| Blaikie, Rob. | Do | Distilling | April 27, 1821 |
| Baker, Stephen | Do | Steam boiler | Dec. 13, 1821 |
| Barron, James | Norfolk | Stove | May 14, 1822 |
| Benson, Mathew | Cincinnati, Ohio | Scraper, chimney | May 15, 1823 |
| Berrien, Daniel | New York | Chimney fire extinguisher | Aug. 21, 1823 |
| Belts, H., and J. A. McLean | Norwalk, Ct. | Steam generator | Dec. 24, 1823 |
| Brown, Samuel | London, England | Gas engine without steam | Mar. 2, 1824 |
| Bulkley, Ralph | New York | Boiler to steam engine | Mar. 25, 1824 |
| Do | Do | Boiler, safety steam | April 8, 1824 |

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|---|---|---|---|
| Do | Do | Steam engine | April 30, 1824 |
| Buchannan, Jos. | Lexington, Ky. | Steam, generating | Sept. 13, 1824 |
| Babcock, John | Portsmouth, R. I. | Steam for high pressure | May 1, 1824 |
| Blood, Cyrus | Washington co., Md. | Fireplaces and chimneys | April 7, 1825 |
| Barlow, Benj. | Geddes, N. Y. | Salt, manufacturing by steam | June 25, 1825 |
| Barker, William | Smithfield, R. I. | Salt, manufacturing from sea water or springs | July 20, 1825 |
| Barker, William | Springfield, N. Y. | Warming rooms | Sept. 9, 1825 |
| Brown, John, and G. W. Robenson | Providence, R. I. | Lightning rods, securing | Sept. 24, 1825 |
| Beach, Timothy | Deer Creek, Ohio | Steam engine, circulating | Nov. 16, 1825 |
| Betts, Mahlon | Wilmington, Del. | Steam, generating | Nov. 26, 1825 |
| Bakewell, Saml. R. | Wellsburg, Va. | Kiln, covering | May 10, 1826 |
| Bodman, L. C. & J. | Baltimore | Refrigerators for distilleries | Jan. 6, 1826 |
| Bouis, John | Baltimore | Kitchen, summary | Jan. 19, 1826 |
| Barker, William | Kingston, Pa. | Gauge for steam boilers, sight | Mar. 24, 1826 |
| Bigelow, Elisha | Baltimore | Steam engine | Nov. 6, 1826 |
| Boott, J. W., & Wm. Lynn | Boston, Mass. | Fireplaces, furnaces, &c. | Dec. 29, 1826 |
| Barker, John | Baltimore, Md. | Boilers for anthracite coal | Feb. 7, 1827 |
| Byington, Benijah | Salina, N. Y. | Salt, manufacturing | Feb. 21, 1827 |
| Belknap, Ira | Millersburg, Pa. | Fermenting and distilling spirits | July 20, 1827 |
| Burdett, Benj. C. | New York | Victualler, improvement on the Peripurist | Aug. 4, 1827 |
| Brown, Alex. | Salina, N. Y. | Escape heat of the engine, application of | Oct. 30, 1827 |
| Broadmeadow, Simeon | New York | Steam engine | Jan. 29, 1828 |
| Bennett, Ezekiel | Kingsbury, N. Y. | Cooking apparatus | Feb. 15, 1828 |
| Barr, Benjamin | Strasburg town'p, Pa. | Distilling by steam | April 5, 1828 |
| Blake, Stillman | Providence, R. I. | Engine, rotary steam | Oct. 11, 1828 |
| Belle, Keene A. | New York | Heat by management of combustion, production | Nov. 8, 1828 |
| Badger, Leonidas V. | Dover, N. H. | Furnace and oven, portable cooking | Jan. 30, 1829 |
| Blocksom, Wm., and J. T. Fracker | Zanesville, Ohio | Pan, salt water | Mar. 23, 1829 |

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Bryan, Elijah | New York | Curve tube water wheel for steam engines | April 8, 1829 |
| Barnett, Allin J. | Louisville, Ky. | Stove, cooking | June 11, 1829 |
| Browne, Alex. | Salina, N. Y. | Salt by application of escape heat of steam engines, manufacturing | June 11, 1829 |
| Bennet, Ez. E. | Sandy Hill, N. Y. | Stove, cooking | July 17, 1829 |
| Bomeisler, Louis | Philadelphia | Lime kiln | Sept. 10, 1829 |
| Battle, Mellen | Albany, N. Y. | Steam engines | Nov. 6, 1829 |
| Bodman, L. C. & P. | Baltimore, Md. | Distilling cordials | Sept. 30, 1825 |
| Cruse, Englehart | Baltimore, Md. | Steam engine, improvement on Savary's | Aug. 26, 1791 |
| Cooley, David, & Gab. N. Phillips | New York | Chimneys | Aug. 25, 1800 |
| Crafft, Michael | Pennsylvania | Stills, construction of | Oct. 28, 1801 |
| Calender, Elisha | Boston, Mass. | Lightning rods | Oct. 3, 1808 |
| Coppinger, Joseph | Beaufort, S. C. | Distilling in cast iron stills | Nov. 21, 1809 |
| Chamberlain, Wm. | Vermont | Distilling apparatus | Mar. 17, 1810 |
| Cooper, Charles E. | Albany, N. Y. | Fireplaces | June 27, 1810 |
| Cook, Lyman | Whitestown, N. Y. | Condenser | Mar. 26, 1811 |
| Curtis, Junia, Royal Yeaman | Plymouth, N. Y. Westfield, Mass. | Steam engine | Feb. 8, 1812 |
| Carrier, Omri | Enfield, Ct. | Distilling | Nov. 2, 1812 |
| Cabell, John J. | Lynchburg, Va. | Salt, apparatus for boiling | May 28, 1813 |
| Chevens, Henry | New York | Bathing machine, floating | July 13, 1813 |
| Clark, Ed. | Philadelphia | Lamp | April 27, 1814 |
| Coleman, Eliphalet B. | New Haven, Ct. | Stove, baking, boiling, and steaming | May 13, 1814 |
| Cabell, John J. | Lynchburg, Va. | Salt, manufacturing | June 10, 1814 |

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|---|---|---|---|
| Curtis, Junia | Baltimore, Md. | Steam engine | Aug. 8, 1815 |
| Cluff, Mat. | Norfolk, Va. | Do | Sept. 1, 1815 |
| Carry, Her. | Brooklyn, N. Y. | Distilling by steam | Feb. 16, 1816 |
| Cory, Eliakim | Milton, N. Y. | Stove | May 30, 1816 |
| Carver, James | Philadelphia, Pa. | Bath, veterinary, ventilated | Aug. 8, 1817 |
| Church, William | Baltimore, Md. | Steam engine | July 11, 1818 |
| Cudlipp, John, & Geo. Price | Do | Stove pipes | Nov. 18, 1818 |
| Case, James | New York | Distilling | Mar. 18, 1819 |
| Cooley, David, & Gab. N. Phillips | Do | Chimneys | Aug. 25, 1800 |
| Cutler, David | Leonard co., O. | Distilling | Feb. 20, 1821 |
| Crey, Fred. | Baltimore | Chimneys smoking, preventing | Oct. 8, 1821 |
| Cozzens, Fred. S. | New York | Distilling | July 27, 1822 |
| Collins, Samuel | Springfield, Mass. | Forge, hollow fire | Sept. 11, 1822 |
| Colden, Cadw. D. | New York | Salt, manufacturing | Dec. 14, 1822 |
| Cornelius, Chris. | Philadelphia, Pa. | Lamps, light-house | Dec. 28, 1822 |
| Cook, Chester | Paris, N. Y. | Still worm | Jan. 11, 1823 |
| Conant, John | Brandon, Vt. | Cooking stove | Dec. 13, 1823 |
| Carpenter, J., & J. Rose | New York | Distilling | Jan. 29, 1824 |
| Crutchfield, Robert | Botetourt co., Va. | Brick, burning | Feb. 7, 1824 |
| Chase, Samuel | Williamsport, Pa. | Chimneys cured, smoky | July 26, 1824 |
| Cooley, Anth'y | Le Roy, N. Y. | Steam engine, rotary | July 29, 1824 |
| Conn, Stephen T. | Washington, D. C. | Steam, generating and applying | Sept. 29, 1824 |
| Cooper, Peter | New York | Salt, making | Dec. 24, 1824 |
| Colley, John | Salisbury, Mass. | Stove pipes | Feb. 16, 1825 |
| Conn, Stephen T. | New York | Steam, generating and applying | Nov. 29, 1825 |
| Do | Georgetown, D. C. | Salt by steam, manufacturing | July 12, 1826 |
| Do | Washington, D. C. | Steam generator, (patented November 18, 1825) | July 20, 1826 |
| Collins, D., and J. D. Gallup | Wilkesbarre, Pa. | Steam, generating by anthracite coal | Oct. 12, 1826 |

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Church, William | Boston, Mass. | Furnace for anthracite coal | Nov. 20, 1826 |
| Capen, Edm'd | Do | Still | Jan. 17, 1827 |
| Cooper, John M. | Guildhall, Vt. | Piston, rotative | July 16, 1827 |
| Cornell, William | Brooklyn, N. Y. | Liquors, determining the strength of | Aug 20, 1827 |
| Cocke, William J. | Surry co., Va. | Distilling | Oct. 30, 1827 |
| Do | Cabin Point, Va. | Do | Feb. 4, 1828 |
| Cooper, Peter | New York | Steam engine, changing the rectilineal to rotary motion in | April 28, 1828 |
| Cowan, William | Watertown, N. Y. | Stove, Franklin | June 16, 1828 |
| Cutlin, John | Cincinnati, O. | Engine, hydraulic steam | June 11, 1829 |
| Coffin, Frs., & Charles C. K. Beach | Boston, Mass. | Steam boilers | June 29, 1829 |
| Carter, Valentine | Georgetown, D. C. | Steam engine, avoiding the dead point in the | Aug. 3, 1829 |
| Cooke, William | Southport, N. Y. | Distilling | Dec. 7, 1829 |
| Deneale, James | Virginia | Kiln for drying grain | July 10, 1800 |
| Do | Do | Do do | July 10, 1800 |
| Dearborn, Benj. | Boston, Mass. | Candlestick | Oct. 29, 1804 |
| Dickey, Samuel | Oxford, Pa. | Stove | Mar. 7, 1806 |
| Deneale, James | Dumfries, Va. | Oven, perpetual | Dec. 4, 1806 |
| Dimond, John | Philadelphia, Pa. | Distillation | Dec. 28, 1808 |
| Day, Augustus | Bordentown, N. J. | Combustion and explosion, a new power | Jan. 19, 1811 |
| Dunlap, Andrew | Boston, Mass. | Distilling | May 3, 1811 |
| Decker, Jac. | Green, N. Y. | Stills and boilers | Sept. 2, 1811 |
| Dod, Daniel | New York | Steam engine | Nov. 29, 1811 |
| Dudley, Ambrose | King William co., Va. | Salt, manufacturing | Mar. 31, 1812 |
| Dod, Daniel | Elizabethtown, N. J. | Steam engine | May 12, 1812 |

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|---|---|---|---|
| Powers, John, jr. | Philadelphia, Pa. | Steam engines and steam boats | April 23, 1814 |
| Deering, Richard | - - - | Salt, manufacturing, boring wells, and pumping water | May 28, 1814 |
| Dewey, David | Sullivan, N. Y. | Distilling by steam | July 5, 1814 |
| Dezean, William | Philadelphia, Pa. | Brewing spruce beer | June 13, 1815 |
| Demund, Jos., & Stinson Demund | New Jersey | Spirits from corn and corn cobs | Jan. 17, 1816 |
| Detroismonts, L. D. | New York | Chimneys, stoves, and fire places | April 5, 1817 |
| Deverin, John, and J. D. Isabelle | Lexington, Ky. | Bath, steam | July 6, 1818 |
| Davis, Phineas | York, Pa. | Engine, vibrating steam | Feb. 17, 1821 |
| Delano, Obed. | Utica, N. Y. | Chimney and fire place | Mar. 3, 1821 |
| Duke, James | New York | Lamps | Aug. 15, 1821 |
| Davis, David St. L. | Hibernia, Tenn. | Kiln for drying malt by steam | Aug. 30, 1822 |
| Dixon, Joseph, jr. | Philadelphia | Steam, generating | April 13, 1824 |
| Douglass, John C. | Troy, N. Y. | Distilling apparatus | Nov. 26, 1825 |
| Duff, John | Washington, D. C. | Kiln, brick | Oct. 31, 1825 |
| Deming, Geo. | Niagara, N. Y. | Steam engine | Mar. 10, 1826 |
| Doolittle, Isaac | Bermington, Vt. | Boiler, supplying a uniform quantity of steam to a | June 1, 1827 |
| Dow, Samuel | Elizabethborough, N. J. | Chimney cleaner | June 1, 1829 |
| Davison, Oliver | Johnstown, N. Y. | Stove, air furnace oven | Aug. 25, 1829 |
| Doolittle, Anth'y | Ann Harbor, M. Ter. | Distilling maize | Nov. 16, 1829 |
| Davis, William, & R. W. Lord | New York | Stove, anthracite coal cooking | Nov. 23, 1829 |
| Doolittle, Isaac | Bennington, Vt. | Charcoal, manufacturing | Dec. 14, 1829 |
| Evans, Oliver | Pennsylvania | Stoves and grates | Jan. 16, 1800 |
| Ellicott, David | Maryland | Stove for drying grain | May 1, 1801 |
| Ellicott, Benj. | Pennsylvania | Salt, manufacturing | May 12, 1802 |
| Evans, Oliver | Philadelphia, Pa. | Steam engine | Feb. 14, 1804 |
| Eggleston, Benj., jr. | Princetown, N. Y | Boiling, applicable to distilling, &c., method of | May 27, 1805 |
| Eaton, William | Baltimore, Md. | Boiler, and rectifying still, (former patented to Tim. Kirk, the latter to William Chamberlain) | Oct. 29, 1810 |

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Enters, Lewis, and W. Zigler | Georgetown, D. C. | Light from stone coal gas | Sept. 28, 1815 |
| Eve, Jos. | Augusta, Ga. | Steam engine | May 28, 1818 |
| Everard, Frs. A. | New York | Chimneys, machine for sweeping | May 28, 1818 |
| Edmondson, Samuel S. | Do | Chimney sweeping machine | Nov. 8, 1820 |
| Elder, William | New Brunswick, N. J. | Fermenting apple cider | Aug. 21, 1822 |
| Ewbank, Thomas | New York | Pipes, tin plate lead, for still | May 9, 1823 |
| Eve, Jos. | London, Eng. | Steam enginery | Aug. 16, 1826 |
| Embree, Davis | New Richmond, O. | Distilling by using the 'scape steam of a steam engine | Dec. 3, 1827 |
| Fennel, James | Pennsylvania | Salt, manufacturing | Sept. 24, 1794 |
| Fales, Charles | Worcester, Mass. | Charcoal from peat | Feb. 11, 1807 |
| Fisher, Abm. | - | Fireplace with flat funnel | Feb. 19, 1807 |
| Fales, James | Newport, R. I. | Stoves | Feb. 22, 1809 |
| French, Daniel | New York | Steam engine for boats, mills, &c. | Oct. 12, 1809 |
| Flagg, Josiah, and Josiah Flagg, jr. | Boston, Mass. | Lamp reflector, elastic | April 17, 1810 |
| Fulton, Robert | New York | Steam engine for boats and vessels | Feb. 9, 1811 |
| Freeman, Erastus V. | - | Gin making | April 10, 1811 |
| Fisher, Charles F. | York, Pa. | Still | July 12, 1813 |
| Foster, Wm, jr., and Leonard Foster | Boston, Mass. | Lamp, double reflecting | Aug. 28, 1813 |
| Ford, Eb. | Baltimore | Torpedo | April 14, 1814 |
| Fairlamb, Samuel | Marietta, O. | Steam engine | Oct. 24, 1816 |
| Field, Henry | Camillus, N. Y. | Distilling apparatus | June 17, 1819 |
| Fry, Henry | Harrisburg, N. Y. | Sugar, manufacturing | April 6, 1820 |

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|---|---|---|---|
| Fisher, Henry F. | Philadelphia | Distilling apparatus | Sept. 12, 1821 |
| Farnham, Dudley L. | Albany, N. Y. | Steam engine, rotary | Feb. 19, 1823 |
| Fougeray, Geo. J. | Philadelphia | Stove for burning stone coal | Sept. 11, 1823 |
| Foley, James G. | Harrisburg, Pa. | Still, steam | Feb. 23, 1826 |
| Fairlamb, S., and E. Bruce, jr. | New York | Steam engine, rotary | May 25, 1826 |
| Foss, Cotton | Madison, O. | Steam to blast furnaces | Aug. 2, 1826 |
| Fuller, R. and T. Thomas | New York | Blower, coal grate | May 22, 1827 |
| Freinour, Joseph, and Joseph Freinour, jr. | Philadelphia | Lamp, safety compass | April 5, 1828 |
| Fisher, Abm. | Claremont, N. H. | Stove, cooking | May 9, 1828 |
| Freeborn, Gideon | New York | Engines, attaching tubes to steam | July 8, 1828 |
| Freinour, J., and J. Freinour, jr. | Philadelphia | Lamp, signal | Aug. 1, 1828 |
| Fanshaw, David, and H. Hanks | New York | Boilers for steam, flat | June 11, 1829 |
| Fowler, Charles | Hartford, Ct. | Heater, cylindrical air | July 10, 1829 |
| Fessenden, Thos. G. | Boston, Mass. | Lamp for boiling water | Jan. 31, 1827 |
| Godfrey, John W. and W. Lane | | Stove | July 14, 1798 |
| Geauty, Lewis | Maryland | Still | Aug. 4, 1803 |
| Giraud, J. J. | Baltimore, Md. | Steam bath still, double | April 18, 1804 |
| Green, Timothy | New York | Salt, making | April 1, 1807 |
| Gould, John F. | Newburyport, Mass. | Stove, open | Feb. 1, 1808 |
| Gridley, Giles | Do | Chimneys | Mar. 13, 1808 |
| Do | Do | Fireplace | Mar. 14, 1808 |
| Gunn, Enos | New Haven, Ct. | Boiler for distilling, double | Dec. 19, 1808 |
| Gillespie, Robert | Seneca co., N. Y. | Still and evaporator, perpetual | April 2, 1810 |
| Garber, Michael, sen. | Staunton, Va. | Distilling | June 13, 1810 |
| Graham, Augustus | Fredericktown, Md. | Stoves | Nov. 6, 1810 |

## LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Graham, Augustus | Fredericktown, Md. | Fireplaces, grated | Nov. 24, 1810 |
| Giraud, John J. | Baltimore, Md. | Still, perpetual, double | Dec. 22, 1810 |
| Gamble, William | Washington City, D. C. | Distillery and kitchen ranges | Mar. 18, 1811 |
| Giraud, John J. | Baltimore, Md. | Still, perpetual steam | May 15, 1811 |
| Do | Do | Distilling | June 14, 1811 |
| Gorsuch, Wm. | Do | Lime kiln | Aug. 17, 1811 |
| Gaston, Charles | Williamsport, Pa. | Case for kettles, boilers, stills, &c., metallic | Jan. 31, 1812 |
| Giraud, John J. | Baltimore, Md. | Still | June 26, 1813 |
| Guernsey, Chauncey | Poultney, Vt. | Fireplace and stove | July 7, 1813 |
| Giraud, John J. | Baltimore, Md. | Still and distilling, wooden | Aug. 3, 1814 |
| Gibbs, Abm. | Lancaster, Pa. | Stills and furnaces, setting | Aug. 31, 1813 |
| Gregg, Thomas | Connellsville, Pa. | Furnace for stone coal, air | Mar. 16, 1814 |
| Giraud, John J. | Baltimore | Still, perpetual steam | Mar. 24, 1814 |
| Gillespie, Robert | Seneca, N. Y. | Still | Jan. 31, 1815 |
| Graham, John | New York | Stove, economical | Nov. 9, 1815 |
| Greely, Allen | Oxford, Mass. | Stove, foot | Dec. 23, 1815 |
| Goodsell, Naman | Paris, N. Y. | Distilling apparatus | June 13, 1816 |
| Griffiths, Elijah | Philadelphia, Pa. | Fireplaces | Mar. 6, 1820 |
| Giraud, John J. | Baltimore | Stoves, stills, and boilers | April 19, 1820 |
| Graham, Charles M. | New York | Grates, fire | Nov. 10, 1821 |
| Griemer, Philip | Brandywine, Pa. | Distilling | April 17, 1822 |
| Geithansen, Elias | Halifax township, Pa. | Distilling by steam | Jan. 14, 1823 |
| Gillet, Lewis | Copenhagen, N. Y. | Forge and furnace backs | Aug. 21, 1823 |
| Gourjon, Lewis | Philadelphia | Stove | Sep. 22, 1823 |
| Glendening, Andrew | Butler co., Pa. | Boiler, universal | Sep. 25, 1823 |

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|---|---|---|---|
| Gilbert, John | Le Roy, N. Y. | Steam engine, rotary | Nov. 17, 1824 |
| Gerard, Daniel | Clay co., Ky. | Salt, manufacturing | Jan. 28, 1825 |
| Guiteau, Calvin | Geddes, N. Y. | Salt making | Sep. 9, 1825 |
| Griffiths, Philo N. | Grange, N. J. | Kettle and boiler for heating water | Sep. 26, 1825 |
| Gillett, Wm. L. | Lower 3 Runs, S. C. | Valve, safety, alarm, or reverse | Nov. 18, 1825 |
| Giraud, J. J. | Baltimore | Stove chimneys, furnaces, or engines | Feb. 10, 1828 |
| Garnsey, D. G. | Pomfret, N. Y. | Stove, cooking | Mar. 3, 1828 |
| Hetterick, Robert | Pennsylvania | Stove, cast iron | June 11, 1795 |
| Hirst, Thomas | Do | Stoves | Mar. 11, 1797 |
| Hall, Fitch | New York | Distillation, componnd | April 17, 1797 |
| Henderson, Wm. | Connecticut | Stove | Feb. 12, 1801 |
| Henfry, Benjamin | Pennsylvania | Light from fuel, extracting | April 16, 1802 |
| Do | Do | Evaporation in distilling | Mar. 2, 1802 |
| Hutter, Chris. H. | Do | Brandy from all kinds of grain | Feb. 11, 1803 |
| Hunter, George | Do | Salt, manufacturing | Mar. 24, 1803 |
| How, Wm. | Do | Vapor condenser | April 6, 1803 |
| Hetterick, Robert | Winchester, Va. | Fireplace, Columbian | June 30, 1803 |
| Heistand, Abm. | Yorktown, Pa. | Distilling apparatus | Nov. 27, 1805 |
| Hardenbrook, Abel W. | New York | Steam engines, swivel screw for | Feb. 10, 1807 |
| Hawkins, Jos. | Baltimore, Md. | Lamps, and liquids to be burnt therein | April 21, 1810 |
| Hackley, Philo M. | Herkimer co., N. Y. | Still and water boiler, perpetual steam | Jan. 11, 1811 |
| Hughtson, John | Clinton co., N. Y. | Kiln for drying grain | July 18, 1811 |
| Hunt, Charles | New York | Grates | Mar. 17, 1812 |
| Howe, Charles, and Wm. Lankester | Boston, Mass. | Stoves, open | Nov. 25, 1812 |
| Howe, Wm. | Do | Lamp, nurse | Dec. 31, 1812 |
| Haskell, Ezra | New London, Ct. | Fireplace and stove | June 25, 1813 |
| Harrington, Daniel | Centreville, Pa. | Bath vessel, warm | Oct. 4, 1813 |
| Hackley, Philo M. | Hudson, N. Y. | Boiler, cylindrical | Oct. 9, 1813 |
| Hoffman, Isaac | Shawangunk, N. Y. | Distilling apparatus | Dec. 31, 1813 |
| Hord, Thomas | Caroline co., Va. | Salt, manufacturing | April 8, 1814 |

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Hawkins, Wm. M. | King & Queen co., Va. | Salt water evaporator | April 23, 1814 |
| Hall, Benj. | New Haven, Ct. | Still and condenser | May 13, 1814 |
| Hawkins, Wm. & J. D. | Raleigh, N. C. | Salt, apparatus for making | May 26, 1814 |
| Hart, Naphtali | Easton, Pa. | Distilling | Oct. 29, 1814 |
| Hackley, Philo M. | Herkimer, N. Y. | Boiler and furnace united | Jan. 23, 1815 |
| Harris, Charles | Boston, Mass. | Back log for warming rooms, iron | May 15, 1815 |
| Hall, James | - | Spirits from lime, ardent | Nov. 22, 1815 |
| Hassell, James | Elizabethtown, N. J. | Kiln for earthen ware | Oct. 21, 1815 |
| Hoxie, Chris. | Hudson, N. Y. | Stoves, cooking, and other | May 3, 1816 |
| Hawkins, Joseph | New York | Steam, generating | June 14, 1816 |
| Heath, David | Philadelphia | Evaporator and steam engine | July 26, 1816 |
| Hilton, John | Somerset, Me. | Steam engine | Aug. 22, 1816 |
| Harper, George | Jenkerstown, Pa. | Lime kiln | Jan. 22, 1817 |
| Heavin, John | Virginia | Steam engine | Aug. 27, 1817 |
| Hall, Everard | Princess Anne, Va. | Salt, manufacturing | Nov. 14, 1817 |
| Hunter, Wm. T. | New York | Oven, perpetual | Jan. 8, 1818 |
| Hunt, John | Baltimore | Chimneys, machine for sweeping | July 12, 1817 |
| Hendryx, Beardesly, & Halstead Price | Springfield, N. Y. | Steam engine, rotary | April 13, 1818 |
| Hall, William | New York | Chimneys, sweeping | Dec. 19, 1818 |
| Heaton, James | Do | Mead, carbonated | July 28, 1819 |
| Hackley, Harvey | Do | Brewing by steam | April 21, 1820 |
| Hatton, Thomas | Philadelphia | Steam engine | Feb. 28, 1822 |
| Holley, Philologus | Red Hook, N. Y. | Stove, cooking | Mar. 1, 1822 |
| Hitchcock, Lemuel | Weathersfield, Vt. | Stoves and fire places | May 4, 1822 |

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|---|---|---|---|
| Hale, Elisha | Pomfret, N. Y. | Steam engine, rotary | May 20, 1825 |
| Hoyt, William | Brookville, Ind. | Fire places | June 3, 1825 |
| Harris, Stephen | Norfolk, Va. | Oven, revolving bake | Dec. 5, 1825 |
| Harwood, Saml. 3d, | Braintree, N. Y. | Distilling | April 15, 1826 |
| Hill, Solomon | New Milford, Ct. | Burning lime and brick, and boiling kettles | Feb. 12, 1827 |
| Harris, Francis | Albany, N. Y. | Steam and rotary wheel engines | July 10, 1827 |
| Hedenberg, Frs. L. | New York | Oven, portable | April 26, 1828 |
| Hugus, Jacob | Hempfield towns'p, Pa. | Distilling spirits | May 17, 1828 |
| Howell, Benj. B. | Philadelphia | Furnace, iron | Oct. 11, 1828 |
| Do | Do | Furnace, steam, for anthracite coal | Oct. 14, 1828 |
| Hermange, Anthy. | Baltimore | Steam boilers | Nov. 26, 1828 |
| Hess, John J. | Philadelphia | Cook, economical | Mar. 19, 1829 |
| Hurd, John, jr. | Boston, Mass. | Stoves, culinary | Nov. 10, 1829 |
| Do | Do | Boilers, constructing | Nov. 10, 1829 |
| Do | Do | Furnace with reflectors | Nov. 10, 1829 |
| Do | Do | Ovens do | Nov. 10, 1829 |
| James, George | Tennessee | Salt, manufacturing | Nov. 16, 1796 |
| Ilesley, Daniel | Massachusetts | Spirits, distilling | May 14, 1803 |
| Jenks, Ebenr. | Portland, Me. | Boilers, mode of setting | June 1, 1805 |
| Jewett, David | Pittsfield, Mass. | Distilling essential oil and spirits | Jan. 24, 1811 |
| Jenks, Chs. | E. Windsor, Ct. | Still, quilted head clothing for copper | April 25, 1812 |
| Do | Do | Still, wooden | April 25, 1812 |
| Janes, Alfred | Hartford, Ct. | Stove | Mar. 1, 1813 |
| Jenks, Charles, & Abiel Pease | E. Windsor, Ct. | Distilling, cylindrical heater for | July 12, 1813 |
| Jennings, Samuel H. | Lynchburg, Va. | Bath, portable hot | Jan. 21, 1814 |
| James, Wm. T. | Union Village, N. Y. | Stove | April 26, 1815 |
| Ives, Ira | Farrington, Ct. | Box, tinder | Oct. 25, 1816 |
| Jennings, Isaiah | New York | Steam engine, rotary | Jan. 17, 1817 |
| Jenks, Eb. | Colebrook, Ct. | Fire places | Sept. 2, 1818 |
| Jenkins, Palmer | Hepborn, N. Y. | Stove, cooking | Feb. 6, 1819 |

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Jarves, Deming | Cambridge, Mass. | Tubes for glass lamps | Feb. 2, 1822 |
| Jones, Caleb | Burlington, Vt. | Stove pipes | April 5, 1823 |
| James, Wm. T. | New York | Stoves, box hearths for | April 23, 1824 |
| Isuard, Maximin | Do | Gas engine | Dec. 11, 1824 |
| Joslin, B. F. | Schenectady, N. Y. | Steam, generating and condensing | Dec. 16, 1824 |
| Jackson, Daniel | Peru, N. Y. | Distilling machinery | Dec. 28, 1824 |
| Joslin, Ben. F. | New York | Condensing steam and cooling liquor | Feb. 9, 1825 |
| Jennings, J. | Do | Steam engine | Mar. 15, 1825 |
| Jones, Samuel J. | Philadelphia | Charring wood for procuring gases | Jan. 17, 1827 |
| Jeans, Abel | Millcreek Hun'd, Del. | Kilns, lime | Feb. 15, 1827 |
| Judson, Alfred | Sweden, N. Y. | Steam boiler pump | Feb. 24, 1827 |
| Jennings, Isaiah | New York | Steam engine, high pressure, safety | Feb. 11, 1828 |
| Do | Do | Lamp | Mar. 3, 1829 |
| Do | Do | Lamps and economy of light, construction of | June 11, 1829 |
| Do | Do | Fire and light, producing | June 11, 1829 |
| Jarves, Deming | Boston, Mass. | Chimneys, glass, for argand and common lamps | July 20, 1829 |
| Jennings, Isaiah | New York | Lamp | Sept. 10, 1829 |
| Kincaid, John | Pennsylvania | Still | Nov. 25, 1794 |
| Kirk, Timothy | Do | Cistern, boiling | Dec. 20, 1802 |
| Kendall, Jer. | Fayette co., Pa. | Salt, kettles for boiling | Mar. 18, 1818 |
| Kalisky, Fred. | Philadelphia | Distilling apparatus | Dec. 14, 1819 |
| Keyes, Israel | Putney, Vt. | Stove, cooking | Feb. 23, 1820 |
| Kellenback, Balth. J. | Philadelphia, Pa. | Still, perpetual roof | Aug. 6, 1821 |
| Do | Do | Still | Oct. 17, 1822 |
| Kolb, Aug. | Steubenville, O. | Pan and furnace, evaporating | Jan. 14, 1825 |

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|---|---|---|---|
| Kingsbury, Lewis | Livonia, N. Y. | Chimneys and fireplaces, construction of | Feb. 9, 1825 |
| Kounslar, Conrad | Mill Creek, Va. | Kiln for charring coal | June 20, 1825 |
| Kirk, Augustus L. | Smithfield Town'p, O. | Steam engine, specific | |
| Love, John | South Carolina | Lamp for tallow | June 11, 1798 |
| Lossing, Peter | New York | Lime, burning | Aug. 4, 1800 |
| Lownes, David | Pennsylvania | Liquors, cooling | July 21, 1803 |
| Lord, Saml. P., jr. | Connecticut | Fire, mode of extinguishing | Mar. 18, 1804 |
| Longwell, Matthew | Gettysburg, Pa. | Boiler of steam engine, heating water by the rays of the sun | July 11, 1807 |
| Lecesne, Lewis | Philadelphia, Pa. | Chimneys | June 26, 1809 |
| Lewis, Winslow | Boston, Mass. | Lantern, reflecting and magnifying | June 8, 1810 |
| Letton, Ralph | Albany, N. Y. | Boats by steam, propelling | Aug. 29, 1810 |
| Lee, James | Philadelphia | Fuel for glass furnaces, drying | Jan. 14, 1811 |
| Lanny, David F. | Do | Electrophorus | Aug. 23, 1811 |
| Leceste, Lewis | Belleville, N. J. | Distilling apparatus | Dec. 4, 1811 |
| Low, Jona. | Fitchburg, Mass. | Stove, cooking | Feb. 24, 1812 |
| Lloyd, Nich. | Philadelphia, Pa. | Stove | Feb. 29, 1812 |
| Lankester, Wm. | Boston, Mass. | Stove, parlor fireplace | Nov. 24, 1812 |
| Lanny, David F. | Philadelphia, Pa. | Fireplaces | Mar. 18, 1813 |
| Lewis, W. J. | - - | Salt, manufacturing | Feb. 1, 1814 |
| Lane, Aaron | - - | Stove | May 11, 1815 |
| Lewis, Wm. J. | - - | Salt, manufacturing | Feb. 1, 1816 |
| Liebenau, Henry F. | New York | Stoves | Sept. 7, 1816 |
| Lewis, Winslow | Boston, Mass. | Lamps | Jan. 23, 1818 |
| Lots, John H. | Salisbury, Ct. | Stoves and fireplaces | Mar. 18, 1818 |
| Lamb, James | Berlin, Ct. | Stove, cooking | July 17, 1818 |
| Lane, Aaron | New York | Stoves | Sept. 15, 1818 |
| Do | Do | Chimneys, machine for sweeping | Sept. 22, 1818 |
| Leeke, Charles | Ross co., Ohio | Steam in steam engines, raising the power without increasing the quantity of | Jan. 22, 1820 |
| Lansing, J., and A. Thayer, jr. | Albany, N. Y. | Steam engine, rotary, shifting piston | Jan. 19, 1821 |

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Lloyd, R. L., and A. Bartenheimer | Philadelphia, Pa. | Brewing apparatus | Jan. 27, 1824 |
| Lainhart, Henry, jr. | New Orleans | Steam engine | May 6, 1824 |
| Lee, David B. | Philadelphia | Steam, generating | June 9, 1824 |
| Laning, Joseph H. | Davidson co., Tenn. | Liquids with gas, charging | Dec. 23, 1824 |
| Lovatt, John | Philadelphia | Stove for Lehigh coal | June 16, 1825 |
| Lewis, C., and Phil. Bodman | Baltimore, Md. | Distilling cordials | Sept. 30, 1825 |
| Little, David | Hagerstown, Md. | Stove, cooking | Feb. 1, 1826 |
| Long, George W. | Old PointComfort, Va. | Steam pump | Feb. 16, 1826 |
| Laning, Jos. H. | Nashville, Tenn. | Steam, working twice over | Aug. 12, 1826 |
| Lester, Eb. A. | Boston, Mass. | Boilers, construction of steam | May 14, 1827 |
| Do | Do | Engines, construction of | May 14, 1827 |
| Lurk, James | Butler county, O. | Distilling | Dec. 22, 1827 |
| Lester, Eb. A. | Boston, Mass. | Steam, gas, or vapor, generating | Mar. 10, 1828 |
| Lawes, Thomas, and P. Grosjean | Louisville, Ky. | Distilling | July 30, 1828 |
| Lovatt, John | Philadelphia, Pa. | Boilers and distilleries for anthracite coal, setting up | Mar. 17, 1829 |
| Lee, B. D., & L. Stewart | Do | Engine, rotary, steam | June 11, 1829 |
| Lester, Eb. A. | Boston, Mass. | Sugar from cane juice, manufacturing | Sept. 10, 1829 |
| Morey, Samuel | Oxford, N. H. | Spit turner | Jan. 26, 1793 |
| Do | New Hampshire | Steam application | Mar. 25, 1795 |
| McCallmont, James | - - | Stoves | Feb. 20, 1797 |
| Morey, Samuel | Do | Steam power applied to water | Mar. 27, 1799 |

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|---|---|---|---|
| Do | Do | Steam, obtaining force from water by | Nov. 17, 1800 |
| Moffit, John | New York | Evaporating boiler | Feb. 1, 1803 |
| Do | Do | Still | Feb. 1, 1803 |
| Moore, Thomas | Maryland | Refrigerator | Jan. 27, 1803 |
| Morey, Samuel, & Rufus Graves, & Giles Richards | Massachusetts | Steam engine | June 15, 1803 |
| Melville, David | Newport, R. I. | Gas lamp | Mar. 24, 1810 |
| Miller, Jac. | Lancaster co., Pa. | Distilling | Mar. 2, 1810 |
| Macomber, James | Greenwich, N. Y. | Air flue, descending | Nov. 19, 1811 |
| Morey, Samuel | Philadelphia, Pa. | Air, rarified and unrarified, mode of obtaining power by their difference | April 8, 1812 |
| Mix, Eli | New Haven, Ct. | Fireplaces, fluted back | April 25, 1812 |
| Morris, John | Do | Cooking apparatus | Oct. 3, 1812 |
| Do | Do | Boiler box | Oct. 3, 1812 |
| Mallory, James | New York | Lamps | Nov. 20, 1812 |
| Morey, Samuel | Philadelphia, Pa. | Fireplace and chimney | Jan. 18, 1813 |
| Morris, John | New Haven, Ct. | Distilling and boiling liquors | Mar. 3, 1813 |
| Melville, David | Newport, R. I. | Gas lamp | Mar. 18, 1813 |
| Merritt, William | New York | Bathing machine | Feb. 1, 1814 |
| Miller, Benjamin | North Salem, N. Y. | Spirit proof | Feb. 21, 1814 |
| Moore, Henry | Aurora, N. Y. | Brandy from domestic materials, imitating | July 2, 1814 |
| Morey, Samuel | Boston, Mass. | Steam engine | July 14, 1815 |
| Merrill, Mervin | New York | Sugar, moulds for refining | Oct. 25, 1816 |
| Martin, Anth'y B. | Hagerstown, Md. | Stoves | Dec. 26, 1816 |
| Morey, Samuel | Oxford, N. H. | Boiler for steam engine | Mar. 13, 1817 |
| Do | Do | Water burner | Dec. 11, 1817 |
| Mount, Rob. and John | New York | Stove | April 11, 1818 |
| Morton, J.H., J.Borely, and R. Huston | Lexington, Ky. | Steam for distillation, employing waste | April 28, 1818 |
| Munger, George | New Haven, Ct. | Salt, manufacturing common | June 23, 1818 |

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Merot, Charles | Philadelphia | Vaporous alembic | Nov. 5, 1818 |
| Mitchell, John R. | Do | Heat retainer and imparter | Nov. 19, 1818 |
| Melville, David | Newport, R. I. | Lamp, Argand's | Nov. 19, 1818 |
| Morey, Samuel | Oxford, N. H. | Steam boilers, triple pipe | Dec. 19, 1818 |
| Do | Do | Water burner | Dec. 19, 1818 |
| Do | Do | Steam, shooting with | Jan. 19, 1819 |
| Do | Do | Stoves, leading flame in by wire gauze | Jan. 20, 1819 |
| Moore, John W. | Washington, D. C. | Chimney sweeping machine | Aug. 8, 1821 |
| Marshall, Benjamin | New York | Steam bath, medicated | Dec. 7, 1821 |
| Magine, Joseph | Baltimore, Md. | Fireplaces | Feb. 4, 1822 |
| McMinn, Robert | Philadelphia, Pa. | Stove for burning Lehigh coal | June 24, 1822 |
| McAllister, David | Brookfield, Vt. | Heating liquids in wooden cisterns | July 15, 1822 |
| Mingle, Philip L. | Do | Stove for Lehigh coal | Oct. 24, 1822 |
| Macdonald, Malcolm | Fayette co., Pa. | Distilling | Feb. 19, 1823 |
| Miller, John | Northampton, Pa. | Furnace, fire proof, for distilleries | Mar. 13, 1823 |
| Moore, George G. | New York | Steam kilns | Dec. 4, 1824 |
| Mayo, Rob. | Richmond, Va. | Grate, reverberating | Nov. 1, 1825 |
| Mastelly, Lewis | New York | Coffee extractor | Sept. 30, 1825 |
| Musselman, Michael | Phelps, N. Y. | Steam to machinery, application of | Dec. 29, 1825 |
| Morey, Samuel | Oxford, N. H. | Engine, gas or vapor | April 1, 1826 |
| McCurdy, John | London, Eng. | Steam, generating | July 1, 1826 |
| Mott, L. C., and W. Holmes | New York | Grate and blower for Lehigh coal | Nov. 26, 1826 |
| McGregor, Malcolm | Do | Still | June 15, 1827 |

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| Maynard, John | Ovid, N. Y. | Steam engine | June 15, 1827 |
| McAllester, A. S., and John Iggett | Salem, N. Y. | Rooms, warming | Dec. 15, 1827 |
| McIntosh, William J. | Georgia | Cane juice, clarifying | Mar. 7, 1827 |
| Moody, Eli | Northfield, Mass. | Oven for boiling over a cooking furnace | April 5, 1828 |
| Miller, John, and B. Clemmons | Clemmonsville, N. C. | Stills, boilers, kettles, &c., setting | June 24, 1828 |
| Merrill, Fred. B. | Buffalo, N. Y. | Chandeliers of crystallised salt | June 13, 1829 |
| Mount, Joseph | Nashville, Tenn. | Rotary motion by steam | July 16, 1829 |
| Mead, J., and A. B. Kitchell | Lebanon, O. | Atmospheric steam engine | July 27, 1829 |
| Mauck, Rob. | Gallipolis, O. | Rectifying spirits by redistillation and filtration | Dec. 7, 1829 |
| Naylor, John | Richmond, Va. | Still and boiler | Mar. 31, 1804 |
| Noyes, Josiah | Herkimer, N. Y. | Stove, steam cooking | June 21, 1811 |
| Nott, Eliphalet | Schenectady, N. Y. | Fireplaces, constructing | Feb. 3, 1819 |
| Do | Do | Heat, evolution and management of | Mar. 23, 1826 |
| Do | Do | Do in the evolution | June 21, 1826 |
| Do | Do | Do evolution and management of | Dec. 29, 1826 |
| Do | Do | Do do do | May 30, 1827 |
| Do | Do | Do do do | Mar. 26, 1828 |
| Nance, James R. | Floyd, Ind. | Distilling | Dec. 27, 1828 |
| Naylor, William | - | Stoves, cooking | June 11, 1829 |
| Neer, Charles | Waterford, N. Y. | Chimneys, cast iron coping | Sept. 11, 1829 |
| Noyes, Aaron | Newburg, N. Y. | Kiln, brick | Dec. 29, 1829 |
| O'Conner, Thomas | New York | Still condenser | July 9, 1807 |
| Ogden, Frs. B. | Essex, N. J. | Steam engine and the application of steam | Dec. 31, 1813 |
| Olmstead, Dennison | New Haven, Ct. | Gas light from cotton seed | July 21, 1827 |
| Putnam, Aaron | Medford, Mass. | Distilling | Jan. 29, 1791 |
| Passmore, Thomas | Philadelphia, Pa. | Cooking and boiling | Dec. 23, 1796 |
| Peale, Charles W. | Pennsylvania | Fireplaces | Nov. 16, 1797 |
| Payne, Wm. | - | Stove, soapstone | Dec. 10, 1797 |

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Peale, Charles W. | Pennsylvania | Bath, portable vapor | June 16, 1801 |
| Poole, John | - - | Syphonic steam machine | Oct. 13, 1801 |
| Paine, Wm. | Pennsylvania | Still | Aug. 24, 1802 |
| Putnam, Elisha | New York | Fire stop | Aug. 24, 1802 |
| Peers, Valentine | Virginia | Salt, manufacturing | Dec. 18, 1802 |
| Peasley, Jedediah | Vermont | Lime, manufacturing from marl | Feb. 1, 1803 |
| Pickornelle, J. B. M. | New York | Gas, antiseptic | Mar. 24, 1803 |
| Platt, Benjamin | Connecticut | Boiler | April 27, 1803 |
| Power, Thomas | - - | Lime kilns | July 12, 1804 |
| Pollock, Allen | Boston, Mass. | Fireplaces and stoves | April 23, 1807 |
| Do | Do | Heating rooms, method of | April 24, 1807 |
| Pondrell, Jos. | New York | Furnace or stove, economical | April 6, 1808 |
| Pollock, Allen | Boston, Mass. | Stoves for heating rooms | June 17, 1808 |
| Parsons, Osborn | Hudson, N. Y. | Spirits, rectifying | June 23, 1808 |
| Pollock, Allen | Boston, Mass. | Stoves for heating rooms | June 30, 1808 |
| Pettibone, Daniel | Roxbury, Ct. | Stove for warming rooms, rarifying air | Oct. 28, 1808 |
| Parkhurst, John, jr. | Cheshire, N. H. | Stove pipes | Feb. 13, 1810 |
| Parry, Benjamin | Bucks co., Pa. | Kiln for drying grain | July 7, 1810 |
| Potter, Hosea E. | Otsego, N. Y. | Boiling potatoes or other food for cattle | Nov. 20, 1810 |
| Power, Thomas | New York | Stoves | Sept. 27, 1811 |
| Pettibone, Daniel | Philadelphia | Rooms by rarified air, warming | May 12, 1812 |
| Phinney, Zina | Cairo, N. Y. | Salt water, improvement on Moffit's machine for boiling | Aug. 19, 1812 |
| Parsons, Hezekiah | Colebrook, N. H. | Kiln for drying grain | July 9, 1812 |
| Pease, Abiel, & Sam'l Bestor | Enfield, Ct. | Rectifying spirits | July 27, 1812 |

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| Parmelee, Marcus B. | Newtown, Ct. | Steam machine to give constant motion | Aug. 25, 1812 |
| Phinney, Zina | Cairo, N. Y. | Fuel, saving | Oct. 31, 1812 |
| Phillips, Gab. N. | Goshen, N. Y. | Stove and boiler | Feb. 6, 1813 |
| Postley, Charles | New York | Stove, eleven plate | Mar. 7, 1814 |
| Phillips, Gab. N. | Goshen, N. Y. | Boilers | June 28, 1814 |
| Postley, Charles | New York | Stove | April 26, 1815 |
| Parker, Fielder | Pr. George co., Md. | Charcoal for gunpowder | July 25, 1815 |
| Power, Thos. and Isaac | Hudson, N. Y. | Stoves | Aug. 31, 1816 |
| Power, Thomas | Do | Kilns, lime | Jan. 7, 1817 |
| Phoebus, Wm. | New York | Heat, collecting and retaining in stoves | Nov. 28, 1817 |
| Paine, Ephraim | Philadelphia | Fire extinguisher and chimney sweeper | Dec. 11, 1817 |
| Pierce, Thomas | Hartwick, N. Y. | Boiler for distilleries | Feb. 27, 1819 |
| Parsons, Osborn | Pittsburg, Pa. | Salt, boiling | April 4, 1820 |
| Powers, Enoch | Hartford, Ct. | Ice preserver, portable | Aug. 28, 1821 |
| Pierce, John J. | Greenfield, Mass. | Stove, open cooking | Mar. 11, 1822 |
| Planton, Julia | Philadelphia | Stove, foot | Nov. 4, 1822 |
| Phillips, Thomas | New York | Lamp, economical condensing | June 25, 1823 |
| Powers, R. N. | Cincinnati, O. | Steam engine, reacting rotary | April 29, 1824 |
| Prentiss, E. and J. | Baltimore, Md. | Engine, atmospheric | June 22, 1824 |
| Post, Garret | Auburn, N. Y. | Furnace for heating iron hoops | May 22, 1826 |
| Perry, Sanford S. | Troy, N. Y. | Stone ware without salt, burning | Sept. 12, 1826 |
| Phelps, Daniel | Bath, N. Y. | Steam generator | Nov. 14, 1826 |
| Payne, George J. | Lockport, N. Y. | Heating and boiling water | Dec. 29, 1826 |
| Poiteaux, Michael B. | Richmond, Va. | Ovens, heating rooms, &c. | Jan. 17, 1827 |
| Page, Jos. R. | Philadelphia, Pa. | Stove, domestic cooking | Mar. 24, 1827 |
| Poole, John | Sheffield, England | Boilers for steam engines | May 14, 1827 |
| Potter, Alden | New York | Do do do | Oct. 11, 1828 |
| Pierce, Caleb | Salem, Mass. | Screen, fire | April 29, 1829 |
| Packard, E., and J. E. Strong | Granville, N. Y. | Steam, use and application of | Aug. 7, 1829 |
| Quincy, Abm. | Boston, Mass. | Fire cavern | Mar. 20, 1811 |

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Quincy, Abm. H. | Boston, Mass. | Furnace for heating ovens | Feb. 17, 1812 |
| Do | Do | Stove, fire proof stone | May 21, 1812 |
| Do | Do | Boiler for chemical purposes, stone | June 13, 1812 |
| Do | Do | Stone heaters for foot stoves | June 13, 1812 |
| Quigley, Moses B. | Washington co., Md. | Heating plates for hot pressing | June 15, 1819 |
| Rumsey, James | Berkeley co., Va. | Steam engine | Aug. 26, 1791 |
| Do | Do | Steam, generating | Aug. 26, 1791 |
| Read, Nathan | Salem, Mass. | Steam engine boiler | Aug. 26, 1791 |
| Do | Do | Distilling | Aug. 26, 1791 |
| Ryan, Edward | Pennsylvania | Furnace, pot and pearl ashes | April 29, 1793 |
| Richardson, John | New York | Evaporating furnace | Sept. 13, 1802 |
| Rouse, Simeon | Do | Camboose for distilling fresh from salt water | Jan. 1, 1803 |
| Richardson, John | Do | Evaporating furnace | April 4, 1803 |
| Richardson, Edward | Do | Still heads | Dec. 16, 1803 |
| Ross, Talmage | New Jersey | Fireplace, double draught | Jan. 23, 1804 |
| Richardson, Edward | Fredericktown | Still | Oct. 3, 1807 |
| Ross, John H. | Baltimore, Md. | Illuminator for stair cases | June 24, 1808 |
| Richardson, Oliver | Medway, Mass. | Chimneys, constructing | April 18, 1810 |
| Russel, Barzillai | Hartford, Ct. | Rooms, warming | Mar. 4, 1811 |
| Randall, Samuel | Providence, R. I. | Subignus, air draught | Mar. 12, 1811 |
| Rogers, James | Albany, N. Y. | Steam, propelling boats | Sept. 27, 1811 |
| Root, Joel | Southington, Ct. | Backs for chimneys, air | Feb. 13, 1812 |
| Russell, James D. | Washington, N. C. | Steam engine | April 10, 1813 |
| Roy, Rob. | Warwick, N. Y. | Stove, spiral | Nov. 13, 1813 |
| Reynolds, Charles | East Windsor, Ct. | Steam engine | July 23, 1814 |

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|---|---|---|---|
| Richards, Lemuel M. | Cazenovia, N. Y. | Boiler or steam generator | Mar. 30, 1815 |
| Rapp, Wm. A. | New York | Distilling turpentine, tar, &c. | Dec. 4, 1815 |
| Rand, Ebenezer | Hudson, N. Y. | Chimneys and fireplaces | Dec. 27, 1816 |
| Richardson, Wm. | Kingston, N. Y. | Distillation | June 15, 1816 |
| Do | Do | Vinegar and cider from offals of distilleries | Sept. 26, 1816 |
| Rumsey, E., ex. of Jas. | Kentucky | Steam boilers and steam engines | Nov. 15, 1816 |
| Do do | Do | Wheels, &c. operated on by steam, imp'nt on Rumney's | Nov. 15, 1816 |
| Do | Do | Steam engine applied to navigation | Nov. 15, 1816 |
| Ross, James | Elizabethtown, N. J. | Stove | Dec. 3, 1816 |
| Ricketson, Humphrey | New York | Steam boiler | Dec. 13, 1816 |
| Rogers, George | Northampton, Mass. | Stove, rarifying chimney | Dec. 18, 1816 |
| Ruffner, David and Jos. | Kenawha, Va. | Salt water, mode of obtaining | Jan. 18, 1817 |
| Read, Nathan | Boston, Mass. | Steam engines, rotary | Feb. 21, 1817 |
| Richardson, Israel J. | Geneva, N. Y. | Steam engine | Oct. 13, 1817 |
| Rice, John | Hartford, Vt. | Stove, fireplace and oven | Dec. 6, 1817 |
| Ronaldson, James | Philadelphia | Kiln for seasoning wood | Feb. 2, 1818 |
| Robinson, Geo. W. | Attleborough, Mass. | Kettles, &c. for boilers, setting | July 17, 1818 |
| Redmond, Arthur | Nashville, Tenn. | Brewing | May 20, 1819 |
| Robinson, Geo. W. | Attleborough, Mass. | Furnaces, making | Aug. 19, 1822 |
| Rossiter, Joseph P. | Salina, N. Y. | Salt, fine and coarse | March 2, 1824 |
| Raymond, Herbert V. | New York | Steam boilers applied to hatters' grates | Sept. 16, 1824 |
| Reip, Henry | Baltimore, Md. | Oven, bake | Sept. 27, 1825 |
| Raymond, Garret V. | Richmond, Va. | Furnace for heating hatters' finishing irons | Sept. 29, 1825 |
| Rolph, Social | Wailes, N. Y. | Furnaces, stoves, &c., constructing | Nov. 8, 1826 |
| Read, Elijah H. | Lancaster, Ky. | Steam engine, rotary | Nov. 10, 1826 |
| Reilly, James, and John Flanagan | Waynesborough, Pa. | Chimneys, crank and wheel dampers for | Mar. 10, 1827 |
| Robinson, Geo. W. | New York | Stove, cast iron foot | June 2, 1827 |
| Rouse, Robert C. | Athens, N. Y. | Stove, cooking | Jan. 26, 1828 |
| Richards, Lemuel L. | Chagrin river, O. | Steam boiler | Aug. 21, 1828 |
| Read, A. H. | Montrose, Pa. | Chimneys, curing smoking | April 3, 1829 |

## LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Richards, Josiah | Claremont, N. H. | Stove, double furnace cooking | Aug. 5, 1829 |
| Richards, Geo. | Providence, R. I. | Stove, cooking and Franklin | Sept. 9, 1829 |
| Stevens, John, jr. | Bergen co., N. J. | Steam boiler | Aug. 26, 1791 |
| Do | Do | Steam engine, improvement on Savary's | Aug. 26, 1791 |
| Do | Do | Bellows, application of steam to work | Aug. 26, 1791 |
| Simpson, Joseph | Richmond, Va. | Distilling | Mar. 4, 1794 |
| Stuart, Richard | Maryland | Chimneys | Feb. 24, 1797 |
| Smallman, James, and A. J. Roosevelt | | Steam engine, double | May 31, 1798 |
| Sears, John | Massachusetts | Salt, manufacturing | Jan. 24, 1799 |
| Staples, John | Virginia | Still | Dec. 15, 1802 |
| Stevens, John | New York | Steam, production of | April 11, 1803 |
| Staniford, John, jr., & Amos D. Allen | Windham, Ct. | Lantern | May 10, 1804 |
| Spafford, Horatio G. | Hudson, N. Y. | Fireplace, close | May 3, 1805 |
| Smith, Standfast | Suffolk, Mass. | Salt from sea water, extracting | June 12, 1806 |
| Do | Do | Do do facilitating the progress of extracting | June 12, 1806 |
| Do | Do | Do do do do do | June 12, 1806 |
| Steward, Stephen | Walpole, N. H. | Stills | June 28, 1807 |
| Stevens, John | New York | Steam engines and boilers | Jan. 3, 1810 |
| Sanders, John | Schenectady, N. Y. | Distilling spirits from cornstalks | Feb. 7, 1811 |
| Stubbs, James, and Nathaniel Parsons | Chillicothe, O. | Steam engine or vaporous machine | Feb. 25, 1811 |
| Sweet, John | Berkshire, Mass. | Andirons and fireplaces | Feb. 25, 1811 |
| Sternberg, Peter | Montgomery co., N. Y. | Fireplaces | Mar. 20, 1811 |

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|---|---|---|---|
| Sherwood, Andrew | New York | Stove, kitchen | April 21, 1811 |
| Do | Do | Stove, cooking, drum | April 25, 1811 |
| Stevens, John | Do | Steam engine for propelling boats, constructing | May 21, 1811 |
| Smith, Samuel | Herkimer, N. Y. | Steam kitchen for baking | June 11, 1811 |
| Sherer, Jac., and Abm. Killian | Lancaster, Pa. | Distilling and refining apparatus | June 17, 1811 |
| Staples, John | Richmond, Va. | Steam engine, pendulum | July 18, 1811 |
| Scaly, Richard | Newark, N. J. | Still and condenser | July 25, 1811 |
| Sellers, Charles W. | Alexandria, D. C. | Salt, fine from coarse, manufacturing | Oct. 11, 1811 |
| Sizer, Jona. | New London, Ct. | Boilers, circular | Oct. 15, 1811 |
| Sternberg, Peter | Montgomery co., N. Y. | Fireplace | Oct. 28, 1811 |
| Shaw, Jona. | Palmer, Mass. | Distilling spirits at one operation | Nov. 13, 1811 |
| Sternberg, Peter | Montgomery co., N. Y. | Fireplace | Nov. 19, 1811 |
| Shoemaker, Daniel | Philadelphia, Pa. | Extinguisher and chimney regulator | Mar. 27, 1812 |
| Sexton, Jac. W. | Burlington, N. J. | Steam engine, horizontal | July 18, 1812 |
| Spencer, John | Albany, N. Y. | Stove, kitchen | Feb. 8, 1813 |
| Share, Joseph | Baltimore, Md. | Furnace for casting brass or other metal, portable | Mar. 30, 1813 |
| Soper, Tim., jr., and Charles Reynolds | Hartford, Ct. | Steam stills and water boilers | Dec. 2, 1813 |
| Shurtliff, Simeon | Oneida co., N. Y. | Distilling from grain | July 5, 1814 |
| Spohn, Adam | Comrio, Pa. | Chimneys and fireplaces | Sept. 22, 1814 |
| Sarchet, Peter, sen. | Cincinnati, Ohio | Salt, manufacturing | Sept. 27, 1814 |
| Shurly, Thomas | New Madison c. h. Va. | Condenser and heater for manufacturing spirituous liquors | Nov. 18, 1814 |
| Stone, John, jr. | Worthington, Mass. | Still, steam or stove | Dec. 8, 1814 |
| Smith, Silas | Genesee, N. Y. | Whiskey, making | May 23, 1815 |
| Smallman, James | Philadelphia, Pa. | Air pump for steam engines, double | Aug. 29, 1815 |
| Seger, John | New York | Cooking machine, family | Nov. 14, 1815 |
| Schultz, William | Do | Boiler of steam engine | Jan. 26, 1816 |
| Stevens, John | Hoboken, N. J. | Steam engine | Mar. 14, 1816 |
| Do | Do | Sliders instead of valves, in working steam engines | Mar. 16, 1816 |
| Sergeant, John | Vernon, N. Y. | Reconductor | April 23, 1816 |

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—*Continued.*

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Stevens, Montgomery | New York | Stills | June 17, 1816 |
| Shepherd, Levi | Northampton, Mass. | Fireplaces | Jan. 25, 1817 |
| Swain, Albertus | Hudson, N. Y. | Stove, cast iron, cooking | Feb. 1, 1817 |
| Swope, Jac. | Lancaster, Pa. | Kiln, lime | Mar. 14, 1817 |
| Sullivan, John L. | Boston, Mass. | Steam engine | Mar. 24, 1817 |
| Simpson, Joseph P. | New York | Stove | April 5, 1817 |
| Salisbury, William | Derby, Ct. | Fireplaces | Aug. 16, 1817 |
| Shepherd, Caleb | Cincinnatus, N. Y. | Boiling | Oct. 4, 1817 |
| Sullivan, John L. | Boston, Mass. | Boilers, supply chamber for | Feb. 28, 1818 |
| Do | Do | Boiler, steam engine | Feb. 28, 1818 |
| Do | Do | Steam engine, rotary | Dec. 10, 1818 |
| Do | Do | Water burner, American | Dec. 11, 1818 |
| Do | Do | Boiler for steam engines | Dec. 29, 1818 |
| Smith, Ez. F. | Lenox, Mass. | Lamp, pneumatic | Nov. 8, 1819 |
| Stitwell, Stephen | Bainbridge, N. Y. | Still and water boiler, steam | June 14, 1820 |
| Subin, Aaron N. | Frankfort, Ky. | Steam, application of | Dec. 30, 1820 |
| Stillwell, Stephen | Bainbridge, N. Y. | Water boiler and steam still | June 26, 1821 |
| Schuneman, William | Catskill, N. Y. | Fireplaces | Aug. 8, 1821 |
| Simonds, Benj., jr. | Bedford, Mass. | Stove bottom boiler | Oct. 15, 1821 |
| Do | Do | Flue oven door | Oct. 15, 1821 |
| Skidmore, Thomas | New York | Boilers for steam engines | Nov. 30, 1821 |
| Do | Do | Condenser for steam engines | Dec. 1, 1821 |
| Spalding, Stephen | Colchester, Ct. | Fireplaces | April 11, 1822 |
| Seymour, B., & A. C. Battes | Utica, N. Y, | Stove | May 25, 1822 |

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|---|---|---|---|
| Swetland, Uriah | Kingston, Pa. | Distilling apparatus | Nov. 18, 1822 |
| Stansbury, Daniel | Belleville, N. J. | Furnaces for fossil coal | April 15, 1825 |
| Shaw, Jonathan | Southport, N. Y. | Rectifying by steam | June 21, 1825 |
| Sullivan, John L. | New York | Furnace for anthracite coal | Nov. 26, 1825 |
| Sholes, Charles | Phelps, N. Y. | Liquids, evaporating | July 26, 1826 |
| Silliman, Levi | Albany, N. Y. | Steam, generating | Jan. 19, 1827 |
| Schreiner, Jos. H. | Philadelphia, Pa. | Safety valve, chimney smoke and | July 31, 1827 |
| Skinner, Jo. | Mantua, O. | Steam, application of | Mar. 14, 1828 |
| Sanburn, Peter E. | Troy, N. Y. | Cooking, applying heat from iron castings for | June 11, 1829 |
| Schermerhorn, C. | New York | Stove for Lehigh coal, cooking | June 23, 1829 |
| Taylor, John | Virginia | Worm, tin, sheet copper, condensing | June 13, 1795 |
| Tilley, Hattil | Massachusetts | Salt vats, mode of covering | Feb. 12, 1800 |
| Thornton, William | Delaware | Boilers for steam stills | Oct. 28, 1803 |
| Thomas, John J. | Charleston, S. C. | Chimneys, protector against water | Oct. 2, 1804 |
| Taylor, John G. | - - | Salt, making | Nov. 13, 1805 |
| Thornton, William C. | Washington, D. C. | Still | Dec. 13, 1807 |
| Do | Do | Steam boats and boilers | Jan. 16, 1809 |
| Truman, James | Philadelphia, Pa. | Worm boiler | June 24, 1809 |
| Tobey, Augustus | Alford, Mass. | Distilling apparatus | June 21, 1810 |
| Teale, John C. | New York | Smoke conductor | Sept. 11, 1810 |
| Truman, James | Philadelphia, Pa. | Camboose, portable kitchen or stove | Dec. 3, 1811 |
| Talmage, Ezra | Richmond, Va. | Stills | April 9, 1814 |
| Tuley, Jos. | Frederick co., Va. | Stove, family | May 17, 1814 |
| Tomlinson, Peter | Derby, Ct. | Furnace and fireplace for heating and evaporating liquids | Mar. 7, 1815 |
| Rapp, William A. | New York | Turpentine, tar, &c., distilling | Dec. 4, 1815 |
| Talmage, Ezra | Lancaster, Ky. | Distilling | July 8, 1816 |
| Thacher, David | Tuckerton, N. J. | Salt works, plan of erecting | Oct. 24, 1816 |
| Treadwell, Ephm. | Boston, Mass. | Stove | April 26, 1817 |
| Do | Salem, Mass. | Oven, constructing American | Aug. 27, 1818 |
| Thomas, Rob. | Richmond co., N. C. | Steam engine | May 29, 1819 |
| Taylor, Asa | Philadelphia, Pa. | Candle lamp | Oct. 9, 1819 |

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Thayer, Amos, jr. | Albany, N. Y. | Steam wheel | Aug. 8, 1821 |
| Tasker, John | Philadelphia | Stoves | Feb. 3, 1823 |
| Thayer, Amos, jr. | New York | Steam engine | March 6, 1823 |
| Thornton, James | Pittsburg, Pa. | Do do rotary | July 16, 1823 |
| Thomson, James | Do | Do do do | July 16, 1823 |
| Talcott, Joshua, and J. McCulloch | Smyrna, N. Y. | Stove, Columbian | Jan. 26, 1824 |
| Tuthill, A. G. D. | Utica, N. Y. | Chimneys, construction of | June 8, 1826 |
| Tessenden, Thos. G. | Boston, Mass. | Lamp for boiling water | Jan. 31, 1827 |
| Throckmorton, R. R. | New York | Generator, tubular steam | Jan. 17, 1828 |
| Talbott, Edw. A. | Dublin, Ireland | Engine, Talbott's propelling atmospheric | June 21, 1828 |
| Teissier, J. A. | Boston, Mass. | Salt, manufacturing | Jan. 13, 1829 |
| Do | Do | Do do (patented 13th January, 1829) | April 11, 1829 |
| Tudor, H. J. | Do | Do do | April 29, 1829 |
| Varle, Charles | - - | Reducing calcareous matter into lime | May 2, 1806 |
| Valentine, Roswell | Canaan, N. Y. | Liquid heating machine | June 13, 1812 |
| Varle, Charles | Fredericktown, Md. | Stove chimneys | July 1, 1814 |
| Van Sicler, John F. | Poughkeepsie, N. Y. | Stove, Franklin | July 3, 1816 |
| Vergen, Bernard E. | Wash'n City, D. C. | Sugar refining | April 26, 1816 |
| Vinton, Thomas | Philadelphia | Grate, cooking | Oct. 31, 1829 |
| Wheaton, Caleb | Massachusetts | Improvement in stoves | Mar. 29, 1797 |
| Williams, Jona., jr. | Philadelphia | Sugar, claying moulds | Mar. 13, 1793 |
| Wighton, William | New Jersey | Stills and distilling | Jan. 30, 1804 |
| Wood, Israel | Massachusetts | Stills and large kettles, setting | Feb. 21, 1804 |
| Weld, Ezra | Braintree, Mass. | Salt, apparatus for manufacturing | May 16, 1804 |

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|---|---|---|---|
| Witmer, Henry | Lancaster, Pa. | Condensing tub, improvement on Anderson's | May 17, 1805 |
| Weaver, Abm. | Adams co., Pa. | Distilling apparatus | April 23, 1807 |
| Wheatley, Richard, & Jas. Beaumont | Boston, Mass. | Stove pipes, manufacturing | Nov. 4, 1807 |
| West, John | Stafford, Va. | Oven | Oct. 27, 1808 |
| Wheeler, Benjamin | Boston, Mass. | Salt, manufacturing | April 17, 1809 |
| Walworth, Jos. | New York | Metals, melting | Oct. 17, 1809 |
| Wheeler, Benjamin | Boston, Mass. | Salt, manufacturing | Mar. 28, 1810 |
| Whiting, Ebenezer | Gt. Barrington, Mass. | Fireplaces | June 18, 1810 |
| Williams, John H. | Brunswick, N. J. | Boiling water and producing steam | July 26, 1810 |
| Wilbor, Borden, and Tim'y Soper | Washington co., N. Y. | Steam still and water boiler | Feb. 4, 1811 |
| Watson, William | Weymouth, N. J. | Stove | Mar. 2, 1811 |
| Wittmer, Henry | Lancaster, Pa. | Stills | Sept. 19, 1811 |
| Woolsen, Thos. | Amherst, N. H. | Stoves for heating water, and for washing clothes, &c. | July 3, 1812 |
| Whitcomb, Hiram | Cornwall, Ct. | Stills | Nov. 24, 1812 |
| Ward, Peter, & B. Allison | Philadelphia | Candle holder, economical | July 20, 1812 |
| Warrall, Geo. | Do | Stove | Mar. 30, 1813 |
| Wheatley, James | Fauquier co., Va. | Still and condensing tub | Nov. 13, 1813 |
| Wollins, Wm. M. B., & Hiram P. Barlow | Oneida co., N. Y. | Distilling | May 6, 1814 |
| Walworth, Daniel | Middletown, Ct. | Ores and metals, melting | May 27, 1814 |
| Weston, Thomas | Peacham, Vt. | Still, boiler, and worm | Feb. 13, 1815 |
| Wilbor, Borden | Whitestown, N. Y. | Steam engine | April 26, 1815 |
| Whitemell, Thomas | Scotland Neck, N. C. | Mash for distillation, cooling | Sept. 2, 1815 |
| Warner, Erastus | - - - | Stove, boiling, and steam | Sept. 12, 1815 |
| White, Joseph | Baltimore | Stills | Jan. 15, 1816 |
| Willson, James | Poughkeepsie, N. Y. | Stove, Franklin | Mar. 9, 1816 |
| Whips, John | Jefferson co., Ky. | Distilling and rectifying | April 22, 1816 |
| Witherle, Joshua | Boston, Mass. | Candlesticks, pewter | Oct. 24, 1817 |

LIST OF PATENTEES—CALORIFIC AND STEAM APPARATUS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Woods, Pierce | Frederick co., Md. | Distilling | Sept. 29, 1818 |
| Wisehart, James | Wayne co., Ind. | Sugar from wheat, rye, &c., making | May 25, 1819 |
| Williams, John | Cambridge, Mass. | Beer, making spruce | Feb. 17, 1820 |
| Williamson, Peregrine | Baltimore | Coffee roaster | Mar. 20, 1820 |
| Wilcox, Richard | New York | Distilling by steam | April 20, 1820 |
| Do | Do | Oven, portable rotary | April 20, 1820 |
| Winslow, Nathan | Portland, Me. | Stove, cooking | May 3, 1820 |
| Warren, Josiah | Cincinnati, O. | Lamps for burning fat, &c. | Feb. 28, 1821 |
| Ward, Minus | Columbia, S. C. | Steam engine | Mar. 23, 1821 |
| Warral, Henry | New York | Furnace, cupola | Dec. 31, 1821 |
| Weaver, William W. | Philadelphia | Stove pipes | April 16, 1822 |
| Wilson, James | New York | Stove, Franklin and cooking | Mar. 13, 1824 |
| Wentworth, Thomas | Otsego, N. Y. | Stove, cooking and Franklin united | May 18, 1825 |
| Williamson, Per. | Baltimore | Coffee roaster | June 18, 1825 |
| Wadsworth, John A. | Portsmouth, R. I. | Steam engine power wheel | Sept. 27, 1825 |
| Whitson, Abm. | Staunton, Va. | Distilling | Sept. 28, 1825 |
| Woodruff, Oliver | New York | Furnaces for burning anthracite and other coal | Nov. 7, 1825 |
| Wadsworth, John A. | Portsmouth, R. I. | Evaporator, compound | Nov. 23, 1825 |
| Whitney, Washam | Rochester, N. Y. | Washing machine in distilleries | Jan. 19, 1826 |
| Willis, Wm. | Charleston, S. C. | Steam engine, two cylinders, atmospheric | Nov. 14, 1826 |
| Wolcott, Anson & Norman | Bloomfield, N. Y. | Liquor, distilling all kinds of | Dec. 8, 1826 |
| Do | Do | Alcohol by steam, extracting | Mar. 19, 1827 |
| Westerfield, David | New York | Cooking apparatus | Mar. 24, 1827 |
| Ward, Minus | Baltimore | Gas and heated air in aid of steam power | May 15, 1827 |

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|---|---|---|---|
| Wales, Hiram | Randolph, Mass. | Stove, air funnel | May 18, 1827 |
| Walters, Jac. F. | Philadelphia | Culinary fixtures for anthracite coal | June 8, 1827 |
| Wing, Warren P. | Greenwich Village, Ms. | Steam engine | Aug. 17, 1827 |
| Ward, M., & R. W. Hall | Baltimore | Gas, during the combustion of anthracite coal, inflammable | Jan. 19, 1828 |
| Willis, William | Charleston, S. C. | Steam engine, anti-steam power | Feb. 1, 1828 |
| Wilson, James G. | New York | Steam boilers for stone coal | Feb. 22, 1828 |
| White, David | Fredonia, N. Y. | Distilling spirits from still slop | June 17, 1828 |
| Wood, Richard L. | Philadelphia, Pa. | Rosin, pine, for fuel | Oct. 10, 1828 |
| Williamson, Peregrine | Do | Stove, premium, railway cooking | Feb. 16, 1829 |
| Wilcox, Philip | Springfield, Mass. | Baker, Wilcox's economical | Feb. 18, 1829 |
| Woodhull, Jos. | Rochester, N. Y. | Steam engine, rotary, double rack and twin wheel | April 6, 1829 |
| Youle, John | New York | Camboose for cooking | May 25, 1795 |
| Youle, George | Do | Do | Mar. 21, 1806 |
| Do | Do | Do stove for cooking and distilling | May 21, 1806 |
| Do | Do | Do and cooking stove | April 1, 1807 |
| Do | Do | Do | July 27, 1809 |
| Do | Do | Kitchen, moveable | July 1, 1814 |
| Yeaman, Royal | Baltimore | Steam boiler | Jan. 9, 1815 |
| Do | Do | Do boilers | Nov. 20, 1817 |
| Youle, George | New York | Fire hearth, range or gallery | Mar. 19, 1819 |
| Young, Elam | Fall township, O. | Valve for steam boilers, revolving | Sept. 10, 1819 |

## LIST OF PATENTS—MILLS.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Band chain, with buckets, &c., to give motion to mills | Stephen Belknap | New York | Dec. 28, 1809 |
| Bark mill | John Barclay | Pennsylvania | July 19, 1794 |
| Do do cutting and grinding | Isaac Warrell | Do | Mar. 17, 1802 |
| Do do | Thomas W. Pryor | Philadelphia, Pa. | May 21, 1805 |
| Do do | Cornelius Tobey | Hudson, N. Y. | May 7, 1807 |
| Do do | Paul Pilsbury | Newbury, Mass. | Sept. 22, 1808 |
| Do do | Luther Gale | Berkshire co., Mass. | Mar. 20, 1811 |
| Do grinding and packing | Jos. Richardson and Benjamin Stout | Bucks county, Pa. | June 6, 1812 |
| Do mill | Caleb Churchman and George Martin | Upper Chichester, Pa. | July 16, 1813 |
| Do do | Jared Olds | Meriden, Ct. | April 18, 1814 |
| Do do | Luther Gale | Lenox, Mass. | May 16, 1815 |
| Do quercitron, apparatus for preparing | James Andrews | Philadelphia, Pa. | July 15, 1816 |
| Do machine for breaking | Nathan Sears | Hudson, N. Y. | Oct. 31, 1820 |
| Do mill | Alex'r Tolson | Georgetown, D. C. | June 2, 1821 |
| Do do | E. and J. Trask | Sangerfield, N. Y. | Nov. 22, 1821 |
| Do do | James Elliot | Philadelphia, Pa. | May 24, 1822 |
| Do do | Cotton Foss | Madison, O. | Oct. 25, 1826 |
| Do do cast iron | William Torrey | Westbrooke, Me. | Sept. 13, 1827 |
| Do do | Aaron Bull | Caroline, N. Y. | Mar. 27, 1828 |
| Do do | John Montgomery | Sangerfield, N. Y. | May 29, 1828 |
| Do do and dye wood | Ob. Pease and Asher Donalds | Norfolk, Ct. | Mar. 18, 1808 |
| Bolting cloth | Robert Dawson | Delaware | May 12, 1796 |

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|---|---|---|---|
| Boxes, cast, wrought iron, or wood, for all kinds of machinery | Sullivan Reynolds | Guilford, N. Y. | June 13, 1829 |
| Cattle mill | La Paype (aine) | Baltimore, Md. | Nov. 4, 1805 |
| Coffee mill | Thomas Bruff, sen. | Maryland | Jan. 8, 1798 |
| Do | Increase Wilson | New London, Ct. | Mar. 6, 1818 |
| Do | Burrows Smith | Cincinnati, O. | June 9, 1818 |
| Do | Jona. Sizer, admr. of Zach. Waterhouse | New London, Ct. | June 12, 1818 |
| Do | James Carrington | Wallingford, Ct. | April 3, 1829 |
| Crank, anti-friction | Benj. L. Oliver | Salem, Mass. | Mar. 9, 1821 |
| Do wheel motion | James Wallace | Columbia, S. C. | Sept. 25, 1824 |
| Elevator, conveyor, or hopper boy | Saml. Walgemore | Washington, D. C. | Feb. 22, 1812 |
| Do for elevating grain, flour, meal, &c. | Jer. Bailey | Kennett's Square, Pa. | June 19, 1812 |
| Do raising fluids or grain | Rob. Christy | Jefferson co., Va. | Nov. 21, 1812 |
| Floating mill and silent fisher | Eb. Ford | Charleston, S. C. | Dec. 21, 1809 |
| Flour, meal, &c., manufacturing | Oliver Evans | Philadelphia, Pa. | Dec. 18, 1790 |
| Do manufacturing | Do | Do | Jan. 22, 1808 |
| Do do | Jos. Rich | Madison co., N. Y. | Jan. 27, 1812 |
| Do worm for cooling | John Smelzer | Adams co., Va. | May 6, 1813 |
| Do preserving from becoming sour | Wm. Wood, jr. | St. Clairsville, O. | Dec. 4, 1824 |
| Do | E. Hord and B. Browning | Fleming co., Ken. | Mar. 12, 1825 |
| Flour and meal, bolting | Wm. H Aikens | Berkshire, N. Y. | Dec. 3, 1829 |
| Flumes for mills | Asa Messer | Providence, R. I. | Nov. 19, 1822 |
| Do water wheels | Jabez B. Fletcher | Richmond, Me. | Feb. 16, 1825 |
| Friction cylinder, co-operating | John P. Sawin | Roxbury, Md. | Jan. 24, 1811 |
| Do preventing, or anti-attrition | Edward Mott | Philadelphia, Pa. | Oct. 4, 1817 |
| Gate, water balance | Wm. Maher | Rome, N. Y. | Nov. 12, 1811 |
| Do mode of shutting | Amos Bolton | Fauquier co., Va. | June 19, 1812 |
| Do flood | Benj. S. Hort | Georgetown, S. C. | Oct. 9, 1813 |
| Do saw, machine for giving motion | Samuel Herrick | Clermont co., O. | July 21, 1817 |

LIST OF PATENTS—MILLS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Gate, flood | Jona. Lucas | Charleston, S. C. | Nov. 6, 1819 |
| Do water, for penstocks or flumes | Henly Potes | Christianburg, Va. | Jan. 9, 1827 |
| Do do opening and shutting | Origen Packard | Wilmington, Vt. | Feb. 12, 1827 |
| Do paddle | John F. King | Waterford, N. Y. | Nov. 29, 1828 |
| Gear, running, for mills | Brittain Huckaby | Huntsville, Ala. | Aug. 16, 1824 |
| Do screw | Charles Wortham | Warren co., N. C. | April 24, 1826 |
| Do spur for bevel | Charles Neer | Waterford, N. Y. | Mar. 9, 1827 |
| Grain, machine for raising by blowing | Jer. Baily | Chester co., Pa. | Mar. 5, 1810 |
| Grinding corn on the cob | William Mayo | Henrico, Va. | May 15, 1812 |
| Do and pounding machine | Alex. D. Moore | New Haven co., N. C. | Aug. 7, 1813 |
| Do ores into powder | Henry Alexander | Baltimore, Md. | Oct. 27, 1813 |
| Do potatoes | Jesse King | Florida, N. Y. | Mar. 1, 1814 |
| Do grain | John Bicknell | Buckfield, Me. | Dec. 11, 1822 |
| Do do | B. and J. C. Langdon, and J. Trask | Troy, N. Y. | Sept. 26, 1823 |
| Do and shelling corn | Samuel Fowkes | Catskill, N. Y. | May 4, 1825 |
| Do corn | Jarvis Webster | Philadelphia, Pa. | July 31, 1826 |
| Do grain and paints | Hy. Averill | Richland, N. Y. | April 30, 1829 |
| Grist mill, improvement on Barker's | James Rumsey | Berkeley co., Va. | Aug. 26, 1791 |
| Do working | Do | Do | Aug. 26, 1791 |
| Do | Jona. Curtiss | Pennsylvania | Aug. 24, 1797 |
| Do double centred | Benj. Dearborne | Massachusetts | April 30, 1799 |
| Do | Hadilard Chase | New York | Dec. 16, 1799 |
| Do | Benj. Tyler | New Hampshire | Feb. 20, 1800 |
| Do | George W. Holley | Connecticut | Mar. 27, 1802 |

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|---|---|---|---|---|
| Do | | Jos. Copes | Georgetown, Del. | May 2, 1805 |
| Do | | Ez. Hale | Haverhill, Mass. | Feb. 22, 1807 |
| Do | | Chris. Hamaker | Lancaster, Pa. | May 21, 1807 |
| Do | | Rufus W. Adams | Marlborough, Vt. | Dec. 8, 1808 |
| Do | horizontal | Israel Kelsey | Hartford, Ct. | Aug. 25, 1809 |
| Do | screw | Jos. L. Miller | Brookfield, N. Y. | Mar. 28, 1810 |
| Do | | Jeremy Frisbie | Pennsylvania | June 30, 1810 |
| Do | | Jos. Goulding | Leicester, Mass. | Mar. 1, 1811 |
| Do | regulated | Jos. Quimby | Wilmington, N. C. | Feb. 3, 1812 |
| Do | | Abm. Sawyer | Chester, Vt. | July 20, 1813 |
| Do | | Eb. Bryant | New London, Ct. | Feb. 8, 1814 |
| Do | | John Ormsby and Thos. Cohoon | Washington City | Jan. 4, 1816 |
| Do | | Thos. Ellicot | Pennsylvania | Feb. 17, 1816 |
| Do | | Samuel Brewster | Middlesex, N. J. | Mar. 15, 1816 |
| Do | | J. and D. Hascall | Likay, N. Y. | Mar. 9, 1822 |
| Do | increasing the power of | Robert Burns | Mifflin co., Pa. | June 20, 1822 |
| Do | and hulling | John Wilson | Manlius, N. Y. | Aug. 27, 1824 |
| Do | vertical cylindrical foot | Samuel Fowkes | Catskill, N. Y. | Sept. 13, 1824 |
| Do | cast iron | Hy. Bailey | Hartford, Ct. | May 14, 1825 |
| Do | | Jos. Ives | New York | Dec. 2, 1825 |
| Do | family | David Flagg, jr. | Gardiner, Me. | Feb. 23, 1826 |
| Do | improvement on Bicknell's | Moody Stockman | Hampton, N. H. | April 18, 1826 |
| Do | | Francis Harris and J. Wilson | Albany, N. Y. | June 9, 1826 |
| Do | | Isaac Ryon | Bridgewater, Mass. | June 29, 1826 |
| Do | | Jedediah Northorp | Woodbridge, Ct. | July 31, 1826 |
| Do | | Moses Mendenhall | Greensburg, N. C. | Oct. 20, 1826 |
| Do | improvement on Bicknell's | James Bemis | Worcester, Mass. | Nov. 17, 1826 |
| Do | | Anthy. Bencine | Caswell, N. C. | Jan. 16, 1827 |
| Do | | Wm. Benbow | Guilford co., N. C. | Jan. 19, 1827 |

LIST OF PATENTS—MILLS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Grist mill - - - - - - | Thomas Newman - | Guilford co., N. C. - | Feb. 6, 1827 |
| Do - - - - - - | Benj. Overman - | Greensborough, N. C. | Feb. 28, 1827 |
| Do horizontal - - - - - | Jona. Reynolds - | America, N. Y. - | Mar. 15, 1827 |
| Do crusher and sheller - - - - | John G. Morse - | Randolph co., N. C. - | Mar. 20, 1827 |
| Do - - - - - - | Abm. Delap and Avery Eve - | Guilford co., N. C. - | May 31, 1827 |
| Do - - - - - - | Rob. S. Thomas - | Rockingham, N. C. - | June 4, 1827 |
| Do improvement on Mendenhall's - - | S. Lawing and J. Monteith - - | Statesville, N. C. - | June 11, 1827 |
| Do - - - - - - | Wm. W. Forward - | Harford co., Md. - | June 15, 1827 |
| Do sugar loaf - - - - - | Sid. & Portius Moore | Mount Tirzah, N. C. | June 15, 1827 |
| Do - - - - - - | William A. Turner - | Plymouth, N. C. - | June 27, 1827 |
| Do - - - - - - | Washington Adams - | Guilford, N. C. - | July 18, 1827 |
| Do - - - - - - | Avery & John Coe - | Do - | July 21, 1827 |
| Do - - - - - - | James Robinson - | Buckskin towns'p, O. | Dec. 11, 1827 |
| Do - - - - - - | William L. Taylor - | McMinn, Tenn. - | Jan. 28, 1828 |
| Do - - - - - - | Samuel Holland - | Hanover, O. - | Mar. 1, 1828 |
| Do - - - - - - | Admiral Warren - | Saugerties, N. Y. - | Mar. 12, 1828 |
| Do - - - - - - | Jos. Crail - | Warren, O. - - | June 19, 1828 |
| Do - - - - - - | Reuben Medley - | Bloomfield, Ky. - | Sept. 5, 1828 |
| Do - - - - - - | J. Smith and William Sapp - - | Mount Vernon, O. - | Sept. 9, 1828 |
| Do - - - - - - | Thomas Baker - | Statesburg, S. C. - | Jan. 21, 1829 |
| Do - - - - - - | Benjamin M. Kemp | Fort Plain, N. Y. - | Jan. 31, 1829 |
| Do iron - - - - - - | J. W. & C. Post - | Washington, D. C. - | April 11, 1829 |

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|---|---|---|---|
| Do | William Parkinson | Wheeling, Va. | July 31, 1829 |
| Do | Job Wickersham and T. Crozer | E. Fairfield, O. | Aug. 29, 1829 |
| Do and spiral water wheel | Alexander Temple | Brookfield, O. | Dec. 11, 1829 |
| Do | Mark L. Chase | Frankfort, Me. | Dec. 23, 1829 |
| Do cast iron spindles | Wanton Rice | Athens, Pa. | Oct. 1, 1823 |
| Gudgeon mill | Michael Withers | Strasburg, Pa. | Aug. 24, 1813 |
| Do ink and vertical axis | John Andrews | Dinwiddie co., Va. | Aug. 11, 1817 |
| Head block for saw mill carriage | Jos. Briggs | Schoharie, N. Y. | July 9, 1814 |
| Hopper blower | Thomas S. Barnum | Sharon, Ct. | Jan. 18, 1810 |
| Do filler for bolting flour | Abm. Hershe | Lancaster, Pa. | Jan. 15, 1814 |
| Horse mill | Ephm. Brown | | April 10, 1810 |
| Do by using weights | John Grannis | Cheshire, Ct. | May 12, 1812 |
| Do | William Cromwell | Accomack, Va. | Dec. 14, 1816 |
| Do | William Sanford | New York | April 5, 1821 |
| Do | Admiral Warren | Saugerties, N. Y. | April 15, 1826 |
| Do lever | John Galbraith | Maury co., Tenn. | Mar. 6, 1828 |
| Horse power applied to machinery | Webb Hart | Accomack, Va. | Jan. 22, 1817 |
| Do do do | Benjamin Maltby | New York | April 11, 1825 |
| Meal, cooling and conveying up | G. F. Saltonstall | North Carolina | Aug. 21, 1801 |
| Mill machinery | Lewis Valcourt | Louisville, Ky. | June 25, 1805 |
| Do works | Samuel Mans and J. Black | Pennsylvania | Feb. 18, 1809 |
| Do machinery, impelling power for | Benj. S. Ridgway | Charleston, S. C. | Feb. 6, 1829 |
| Milling | Jesse Reeder | Lebanon, O. | Oct. 31, 1829 |
| Motion, constant, from irregular power | Jos. Kello | New York | April 1, 1815 |
| Do communicating from one wheel to another | William Simpson | Wilkes co., Geo. | Feb. 19, 1818 |
| Do alternate lateral | Nathan Moody | Hallowell, Mass. | Feb. 19, 1819 |
| Do rotary, from rectilineal | A. W. Foster and J. Hugus | Greensburg & Hempford, Pa. | April 26, 1819 |
| Do rotary, from alternate | Peter Cooper | New York | April 6, 1820 |

## LIST OF PATENTS—MILLS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Motion, rectilinear, into rotary | John Y. Savage | Raleigh, N. C. | Aug. 9, 1823 |
| Do do do | Arch. Smith | Rhinebeck, N. Y. | Aug. 30, 1823 |
| Do of machinery, changing | Otis Pettee | Newton, Mass. | Mar. 15, 1825 |
| Do extending and multiplying power | William Kendall, jr. | Waterville, Me. | Jan. 16, 1826 |
| Mustard, preparation of flour of | Samuel Hopkins | Rahway, N. J. | Aug. 19, 1813 |
| Do do do | Do | Philadelphia, Pa. | May 31, 1817 |
| Paint mill | Caleb Greene | Massachusetts | July 23, 1801 |
| Do do | Jacob Cest | Pennsylvania | Dec. 3, 1803 |
| Do do | John J. Wells | Hartford, Ct. | June 13, 1809 |
| Do machine for grinding | Peter Breasted | Green co., N. Y. | April 18, 1814 |
| Do mill | Elijah Skinner | Sandwich, N. H. | Dec. 28, 1818 |
| Do and drug mill | Isaac Eddy | Boston, Mass. | Mar. 19, 1824 |
| Do mill, horizontal cast iron | Origen Packard | Wilmington, Vt. | Feb. 12, 1827 |
| Do do | Allen Holcomb | Butternuts, N. Y. | May 14, 1827 |
| Do do trunked mouth | Samuel Cook | Mendon, Mass. | Mar. 3, 1829 |
| Pendulum applied to mill machinery | Isaac Cobb | Walpole, N. H. | Mar. 1, 1809 |
| Do mill | Solomon Thayer | Braintree, Mass. | Oct. 9, 1811 |
| Do do | William Grandin | Hector, N. Y. | Jan. 6, 1813 |
| Do power, regulated by fly wheel | Wm. W. McIntosh & W. Barnheart | Aurelius, O. | April 13, 1825 |
| Do and lever power | A. & C. Berry | Poughkeepsie, N. Y. | Mar. 25, 1826 |
| Do motion for machinery | Justin Jacob | Montreal, Canada | Dec. 29, 1826 |
| Plaster mill | Eman'l Kent | Baltimore, Md. | Sept. 14, 1804 |
| Do do | William Brown | Do | Dec. 8, 1808 |
| Do do | A. Fettrow | York, Pa. | May 28, 1818 |

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|---|---|---|---|
| Platform, flexible, to give motion to wheels | John Johnson | Charleston, S. C. | Nov. 22, 1809 |
| Powder mill for manufacturing gunpowder | Henry Keyser | Philadelphia, Pa. | Aug. 10, 1791 |
| Do do and rice | Benjamin Bolitho | Pennsylvania | Feb. 7, 1800 |
| Do do | George Keyser | Philadelphia, Pa. | July 27, 1803 |
| Do granulating | E. J. Dupont de Mours | Wilmington, Del. | Nov. 23, 1804 |
| Do do | Richard Crosbie | Newark, N. J. | Feb. 17, 1812 |
| Do manufacturing | Thomas Ewell | Georgetown, D. C. | Dec. 7, 1813 |
| Do granulating | Jos. Worsley | Berne, N. Y. | Feb. 21, 1815 |
| Do do | Charles Dalmas | Wilmington, Del. | April 26, 1816 |
| Do do | Daniel Rogers | Newburgh, N. Y. | Aug. 26, 1818 |
| Do do | Gardner Fulton | Philadelphia, Pa. | Aug. 21, 1819 |
| Do manufacturing | J. M. Merrow & R. McKee, jr. | E. Hartford, Ct. | April 19, 1822 |
| Do granulating | Wm. F. Richardson | Baltimore, Md. | Aug. 3, 1822 |
| Power gaining machinery | Charles Redheiffer | Philadelphia | July 11, 1820 |
| Do extending | Asa Bisber | N. Yarmouth, Me. | Jan. 27, 1824 |
| Do communicating by metallic bands | Jos. Eve | Augusta, Ga. | May 1, 1828 |
| Do horse, water, or steam, applied to machinery | Rob. Mitchell | Cynthiana, Ky. | Oct. 10, 1829 |
| Do machine | William Hosford, jr. | Washington town'p, O. | Dec. 31, 1829 |
| Do steam, applying to circular motion | Rob. Dennis | Rahway, N. J. | Nov. 3, 1825 |
| Propelling all kinds of machinery | William Stanton | Centre town'p, Pa. | April 23, 1827 |
| Do machinery by weights | Cain Broyles | Tellico, Tenn. | Oct. 19, 1827 |
| Pump for elevating meal, grain, &c. | John Ewing & David Dickey | Oxford, Pa. | Oct. 2, 1813 |
| Rapids and shallow rivers, rendering them navigable | John Stephens | Hoboken, N. J. | June 8, 1824 |
| Rolling tub mill | Samuel Bartlett | East Windsor, Ct. | July 19, 1808 |
| Rotary motion machine, double horizontal | William C. Sullivan | Jefferson co., Ind. | June 5, 1824 |
| Sack shoulderer | Lewis Rice | Clarksborough, N. J. | Aug. 3, 1827 |
| Saw mill | Henry Dulheur | South Carolina | Aug. 18, 1797 |
| Do steam | Rob. McKean | New Jersey | Mar. 24, 1798 |
| Do | Aaron Clarke | New York | Mar. 30, 1798 |

LIST OF PATENTS—MILLS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Saw mill - - - - - - | Thomas Payne - | New York - - | Dec. 2, 1799 |
| Do - - - - - - | Moses Coates - | Pennsylvania - | April 1, 1802 |
| Do - - - - - - | Hez. Richardson and Levi Richardson - | Massachusetts - | April 28, 1802 |
| Do stone - - - - - | William Palmer - | New York - - | Dec. 31, 1802 |
| Do and for cleaning cotton - - - | G. F. Saltonstall - | North Carolina - | Jan. 4, 1803 |
| Do - - - - - - | Jos. Quimby - | Boston, Mass. - | April 25, 1806 |
| Do - - - - - - | Jacob Spafford - | Ipswich, Mass. - | June 23, 1807 |
| Do gauge setter - - - - - | Anson Blake - | Lincoln, Ky. - | Nov. 27, 1807 |
| Do circular - - - - - | George Huling - | Shaftsbury, Vt. - | Nov. 24, 1809 |
| Do - - - - - - | Ezra Old and Pliny Upham - - | Worcester, Mass. - | Dec. 24, 1809 |
| Do sawing timber, &c., without a stub short - | Elisha Cooke - | Bethlehem, Mass. - | Jan. 20, 1810 |
| Do do do do - - | John Sweet - | Do - - | Feb. 5, 1810 |
| Do - - - - - - | Abel Wright - | Canaan, N. Y. - | Mar. 7, 1810 |
| Do - - - - - - | Adonijah Jones, jr. - | Bethlehem, Mass. - | Mar. 14, 1810 |
| Do and grist mill - - - - | Jos. Ennalls - | New Market, Md. - | April 10, 1810 |
| Do to work by horse, hand, or other power - | George Harris - | Philadelphia, Pa. - | May 3, 1810 |
| Do sawing timber without a stub short, carriage block - - - - - | William Underwood | Herkimer, N. Y. - | Sept. 6, 1810 |
| Do descending - - - - - | Stephen Belknap and Samuel Merrill - | Georgetown, D. C. - | Feb. 15, 1811 |
| Do - - - - - - | Miles H. Abbott - | - - - | Feb. 26, 1811 |
| Do - - - - - - | Oliver Evans - | Philadelphia, Pa. - | April 15, 1811 |
| Do - - - - - - | Marshall Lewis - | Chenango, N. Y. - | May 24, 1811 |

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|---|---|---|---|---|
| Do | save all | Josiah Hart and Lester Fling | Cheshire, N. H. | Jan. 18, 1812 |
| Do | grist and other, improvement in working | John D. De Lacy | New York | Mar. 28, 1812 |
| Do | travelling, cross cut | Samuel K. Gore | Bradford co., Pa. | May 4, 1812 |
| Do | | Webb Hart | Cheshire, Ct. | May 26, 1812 |
| Do | to be worked by animal power | Ethan Owen | Prince George's co., Va. | Oct. 1, 1812 |
| Do | | Hiram Whitcomb | Cornwall, Ct. | Mar. 2, 1813 |
| Do | | Luther Bissell | Hartwick, N. Y. | July 3, 1813 |
| Do | | Elisha Morgan | Clinton co., N. Y. | Jan. 24, 1815 |
| Do | | Henry Quinn | Huntington, N. J. | Feb. 21, 1815 |
| Do | elevating | Samuel Brewster | Middlesex, N. J. | Oct. 30, 1815 |
| Do | wind | Jesse Springer | Cape May, N. J. | Dec. 27, 1815 |
| Do | | Thomas Cohoon | Washington City, D. C. | Jan. 5, 1816 |
| Do | for dye woods | John Elder | Hamilton, Mass. | Feb. 16, 1816 |
| Do | do | Do | Do | April 11, 1816 |
| Do | | David & M. Fountain | Eastern Shore, Md. | April 5, 1817 |
| Do | | Daniel Collins | Genesee co., N. Y. | Jan. 6, 1818 |
| Do | | John Bruff | Somerset co., Md. | Aug. 16, 1821 |
| Do | | Thomas White | Chester, S. C. | April 27, 1822 |
| Do | | Isaac Ryon | Bridgewater, Mass. | Nov. 24, 1825 |
| Do | | Eb. Whitney | Ithaca, N. Y. | Nov. 1, 1825 |
| Do | | Israel Johnson, jr. | Villenovia, N. Y. | Feb. 8, 1826 |
| Do | sawing timber by steam power | Reuben Nichols | New Orleans | July 21, 1826 |
| Do | horse | Sol. R. Johnson | New York | Oct. 25, 1826 |
| Do | locomotive steam | Wm. G. Berry and J. T. Osborn | Cincinnati, O. | Nov. 26, 1826 |
| Do | | Anthy. Bencine | Milton, N. C. | June 4, 1827 |
| Do | improvement on Johnson's | Anson B. Graham | Lee, Mass. | Sept. 28, 1827 |
| Do | reciprocating | Wm. Kendall | Waterville, Me. | Nov. 23, 1827 |
| Do | | Benj. Overman | Greensborough, N. C. | Dec. 11, 1827 |
| Do | reciprocating | Wm. Kendall | Waterville, Me. | Dec. 31, 1827 |

LIST OF PATENTS—MILLS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Saw mill | Isaiah Call | Woodstock, Vt. | April 28, 1828 |
| Do curvilinear | David Baker | Ipswich, Mass. | Aug. 7, 1828 |
| Do | Geo. Brown | Deerfield, N. Y. | April 7, 1829 |
| Do | Israel Johnson, jr. | Moriah, N. Y. | May 7, 1829 |
| Do floating | James C. Ely | New York | Oct. 21, 1829 |
| Screen pendulum | Lewis Dupree | Charleston, S. C. | April 1, 1807 |
| Do brushing | Ephraim Tisdall | Windham, Ct. | July 17, 1815 |
| Screw mill, for breaking and grinding hard substances | Oliver Evans | Philadelphia, Pa. | Feb. 14, 1804 |
| Sifting meal | Daniel Homan | Brookhaven, N. Y. | Mar. 8, 1813 |
| Snuff mill | Thos. Baldwin | New Castle, Del. | June 22, 1819 |
| Stones, picking mill | Solomon Hodge and Jona. Dorr | Washington, N. Y. | Oct. 23, 1792 |
| Do burr for mills | Oliver Evans | Pennsylvania | May 28, 1796 |
| Do machine for dressing | Chas. Woolverton and Benj. Ridgway, jr. | Morrisville, Pa. | May 24, 1811 |
| Do mill | Wm. Miller | Lampeter, Pa. | Aug. 15, 1811 |
| Do machinery for raising | Thomas Reynolds | West Fallowfield, Pa. | Nov. 8, 1814 |
| Do casting faces of | Grafton Manter | Londonderry, N. H. | Dec. 8, 1818 |
| Do machine for dressing | Leonard Norcross | Livermore, Me. | May 6, 1823 |
| Do concave and convex | J. Sawyer and E. Clark | Royalston, Mass. | Mar. 18, 1826 |
| Do bush | Nathan Taylor | Urbana, N. Y. | July 23, 1827 |
| Do | David Philips | Jefferson co., Miss. | April 3, 1829 |
| Sugar mill | Jean B. Aveilhe | New York | Aug. 28, 1817 |
| Tide mills | Jona. Dickerson | Morris co., N. J. | July 30, 1791 |

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|---|---|---|---|
| Tide mills | John P. Sawin and Jacob Skinner | Roxbury, Mass. | May 17, 1810 |
| Do | Francis Rittal | Lincoln, Mass. | Jan. 28, 1815 |
| Do | Josiah Cleaveland | St. Mary's co., Md. | Oct. 22, 1816 |
| Do and current | Henry Allen | Fayette co., Ten. | Dec. 30, 1820 |
| Do or do | Geo. H. D. Gray | Southampton, Va. | Sept. 25, 1822 |
| Do | Robert Spedden | Talbot, Md. | Aug. 1, 1827 |
| Do or current | Jos. Wallace | Hartford, Ken. | Sept. 11, 1829 |
| Tide power | Henry M. Western | New York | Dec. 23, 1829 |
| Do motion applied to machinery | John Staple, jr. | New York | Mar. 18, 1803 |
| Tub mills | Charles McLean and Solomon Loomis | Hartford, Ct. | Sept. 25, 1805 |
| Water, letting on wheels, and using on wheels successively | Asa Danielson | Otsego, N. Y. | May 16, 1815 |
| Do do flutter wheels | Jarvis Smith | Queen's co., N. Y. | July 1, 1817 |
| Do do water wheels | Samuel Sperry | Nashville, Ten. | Nov. 9, 1824 |
| Do do do | Thomas Key | Henry co., Geo. | July 18, 1826 |
| Do do do | Jac. Ammon | Rockingham, Va. | June 8, 1827 |
| Do do do | Michl. Hildebrand | McMinn co., Ten. | Nov. 10, 1827 |
| Do applying to flutter wheels | James Stewart | Robertson co., Ten. | Oct. 24, 1828 |
| Do drawing from forebays, and discharging on wheels | J. P. Espy and A. Young | Philadelphia, Pa. | Sept. 11, 1829 |
| Water mill | Samuel Bronwer | New York | Nov. 27, 1812 |
| Do | Jac. Perkins | Newburyport, Mass. | June 26, 1813 |
| Do | John Owings | Baltimore, Md. | Jan. 25, 1814 |
| Water power, application to work mills | Josiah W. Newbury | Luzerne, Pa. | June 28, 1815 |
| Do do to water wheels | Samuel Morey | Boston, Mass. | July 14, 1815 |
| Do do to machinery | Meredith Mallory | Benton, N. Y. | Mar. 3, 1817 |
| Do do of | Amos Thayer | Albany, N. Y. | May 1, 1818 |
| Do by spiral wheels | Abner Vansant | Jefferson co., Miss. | Sept. 29, 1823 |
| Water, steam, and wind, applying as a power | Isaac Garretson | Belle Fontaine, O. | Mar. 25, 1826 |
| Do power applied to wheels | Rob. & T. McCulloch | Albemarle co., Va. | May 26, 1827 |

LIST OF PATENTS—MILLS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Water pressure for propelling machinery | George M. Gibbs | Williams's parish, N.C. | Mar. 10, 1828 |
| Wheel, water, horizontal | James Macomb | Princeton, N. J. | Aug. 26, 1791 |
| Do do tide | Cyrus Betts | New York | Mar. 18, 1797 |
| Do do do spiral | Elias Ring | Do | Dec. 10, 1797 |
| Do do do do regulating | John Martin | Do | April 27, 1798 |
| Do do flume | Walter Brewster | Connecticut | June 7, 1798 |
| Do do horizontal | Ezekiel Reed | Massachusetts | Feb. 14, 1799 |
| Do within cylinders | James Sharples | New York | Sept. 15, 1801 |
| Do mill | James Cowen | Massachusetts | Dec. 14, 1802 |
| Do water, sub | Cyrus Bent | Ohio | Mar. 7, 1803 |
| Do mill | John Staples, jr. | New York | Feb. 17, 1804 |
| Do sluice and cast iron | James Humiston, jr. | Wallingford, Ct. | May 10, 1805 |
| Do water | Ephm. Hubbel | Middlebury, Vt. | May 1, 1806 |
| Do do | Simon Willard, jr. | Hudson, N. Y. | Dec. 1, 1807 |
| Do do sub | John Johnson | Knox co., Ind. | Mar. 21, 1808 |
| Do for elevating water for mills | William Smith | Gloucester, N. J. | Aug. 12, 1808 |
| Do water, McComb's reacting | Joel Farnham | Oswego, N. Y. | Nov. 23, 1808 |
| Do overshot, strap or chain | Richard Berrian | New York | Feb. 13, 1809 |
| Do mill | Ephm. Rew | Canandaigua, N. Y | Feb. 22, 1809 |
| Do tide or river | William Stubbs | Chillicothe, O. | May 1, 1809 |
| Do spiral float mill | Fitch Ives | Lisle, N. Y. | July 5, 1809 |
| Do wind or water | William L. Bakewell | New Haven, Ct. | Aug. 18, 1809 |
| Do horizontal water | David Parmelee | Redding, Ct. | Nov. 20, 1809 |
| Do water | Jona. Miner | Saratoga co., N. Y. | April 2, 1810 |
| Do do | Aaron Reuck | Chillicothe, O. | Dec. 5, 1810 |

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|---|---|---|---|
| Do tide | Dexter Wheeler | Bristol, Mass. | Mar. 2, 1811 |
| Do wind and water, horizontal reversing | Danl. Van Voorhis | Long Island, N. Y. | Mar. 21, 1811 |
| Do water, spiral, by balance gates | Benj. Schoolfield and William Stanton | Lynchburg, Va. | April 25, 1811 |
| Do water, working by raising or lowering of tide | Mark Andrews | Kennebeck, Mass. | May 4, 1811 |
| Do do horizontal | John Osborn, jr. | Litchfield, Ct. | May 29, 1811 |
| Do do machine for two wheels at a time | Luke C. Hinman, L. Bissell, and Moses Barnes | Otsego, N. Y. | June 7, 1811 |
| Do do | Abm. Sands | Georgetown, D. C. | Aug. 28, 1811 |
| Do do | Jos. Atkinson | Amherst, Mass. | Sept. 5, 1811 |
| Do do | Elisha Mack | Sheffield, Mass. | Nov. 2, 1811 |
| Do mill | Rufus Lathrop | W. Springfield, Mass. | Nov. 12, 1812 |
| Do water, improvement on Farnham's | David Cooper | Jericho, N. Y. | May 12, 1814 |
| Do mode of balancing | John Andrews | Litchfield, N. Y. | May 27, 1814 |
| Do mill, for grinding bark | David Pelton | Lyne, N. H. | Sept. 30, 1814 |
| Do water, horizontal | William Cornwell | Accomack, Va. | Dec. 15, 1814 |
| Do do | George Peck | Whitestown, N. Y. | April 26, 1815 |
| Do do horizontal | James Wood | Mount Pleasant, N. Y. | June 19, 1815 |
| Do do and wind | Jonathan Reynolds | Dutchess co., N. Y. | June 24, 1815 |
| Do vertical horse | John A. Morton | Baltimore, Md. | July 21, 1815 |
| Do water, horizontal | Richard A. Donaldson & Jos. L. Wheeler | Newark, N. J. | Sept. 25, 1815 |
| Do do overshot | John Green, sen. | Virginia | Mar. 5, 1816 |
| Do do horizontal | Silas Dalle | Cumberland, Mass. | May 28, 1816 |
| Do floating | John Owings | Baltimore, Md. | Sept. 9, 1816 |
| Do do valve | Israel J. Richardson | Geneva, N. Y. | Sept. 26, 1816 |
| Do inclined horse | Jos. B. Robinson | Cincinnati, O. | Oct. 14, 1816 |
| Do water, horizontal and perpendicular | William Purnell | Giles co., W. Tenn. | Jan. 10, 1817 |
| Do do tide and current | Samuel Morey | Oxford, N. H. | Mar. 13, 1817 |
| Do do for mills | Benjamin Thomas | Washington City, D.C. | Mar. 20, 1817 |

LIST OF PATENTS—MILLS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Wheel, water, improvement on Rumsey's and McComb's | Theodore Burr | Burrhaven, Pa. | April 3, 1817 |
| Do do | Ira Griswold | Granville, Ct. | April 16, 1817 |
| Do do perpetual | James Widdifield | Philadelphia, Pa. | April 21, 1817 |
| Do do | Amos Thayer | Albany, N. Y. | July 7, 1817 |
| Do horizontal, inclined | Moses Isaacs & John Wilbank | Philadelphia, Pa. | Oct. 14, 1817 |
| Do water, spiral screw | Alex. McKainy | West Tennessee | Feb. 10, 1818 |
| Do trailing | John Read | Lyne, Ct. | Mar. 6, 1818 |
| Do water | John Evans | Daviess co., Ind. | April 21, 1818 |
| Do do | Amos Thayer | Albany, N. Y. | May 1, 1818 |
| Do do | John Edwards | Urbana, O. | May 25, 1818 |
| Do wind | Moses Isaacs | Philadelphia, Pa. | May 28, 1818 |
| Do water, canal, race, and inclined plane | Arthur Henrie | Miami, O. | Oct. 28, 1818 |
| Do do spring bucket | Asa Waters | Milbury, Mass. | Dec. 22, 1818 |
| Do inclined | John Palmer | Cincinnati, O. | Dec. 29, 1818 |
| Do chain | Henry Beidleman | Washington co., Va. | Feb. 8, 1819 |
| Do balance or fly | John Ordroman | New York | April 26, 1819 |
| Do water | Thomas Eales | Newbury, Vt. | April 29, 1819 |
| Do horizontal | George Deming | Burlington, Vt. | July 22, 1819 |
| Do perpendicular spiral | Zach. Hiatt | Indiana | Aug. 20, 1819 |
| Do or inclined circular plane | Moses Isaacs | New York | Nov. 17, 1819 |
| Do elliptical cog | Edm'd C. Danly | Fredonia, Ind. | May 12, 1820 |
| Do water | Elisha Hale | Baltimore, Md. | July 5, 1820 |
| Do vertical horse | John M. Tilford | Rutherford co., Tenn. | Aug. 7, 1820 |
| Do tide | N. Gates & A. Maxwell | Delhi, N. Y. | Sept. 13, 1820 |

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|---|---|---|---|---|
| Do | water | David Beauchamp | Elizabethtown, Va. | Oct. 10, 1820 |
| Do | do pedal, horizontal | J. J. Giraud | Baltimore, Md. | Feb. 3, 1821 |
| Do | do and wind | William Gallup | Norwalk, O. | Mar. 29, 1821 |
| Do | do oblique | Ralph Bulkley | New York | Aug. 7, 1821 |
| Do | do improvement on Baker's | Charles Goddard | Sabine Hall, Va. | Sept. 27, 1821 |
| Do | chain, right and left | Ralph Bulkley | New York | Oct. 8, 1821 |
| Do | water, horizontal | Horace Howard | Wooster, O. | Dec. 26, 1821 |
| Do | inclined | George Lyman | Charles parish, La. | Mar. 4, 1822 |
| Do | vertical tide | Robert Leal | Delhi, N. Y. | May 31, 1822 |
| Do | inclined, horse and water | Lee Wheeler, and T. Powell | Coxsackie, N. Y. | Dec. 6, 1822 |
| Do | water, vertical | John Maze | Greenbrier co., Va. | Jan. 10, 1823 |
| Do | do | Adolphus Allen | Troy, Pa. | Feb. 8, 1823 |
| Do | crank | James Stedwell, 3d | Carmel, N. Y. | Nov. 25, 1823 |
| Do | water, iron | P. J. Schuyler and E. D. Hitchcock | Stillwater, N. Y. | Dec. 20, 1823 |
| Do | do sliding gear | Sylvanus Guernsey | Fenner, N. Y. | April 12, 1824 |
| Do | hollow, inclined, horse | J. Keller, and S. J. Burt | Cincinnati, O. | April 23, 1824 |
| Do | inclined, horse | John Bradford | Lexington, Ky. | May 14, 1824 |
| Do | do propelling | N. H. Shaw | Charlotte Hall, Md. | Oct. 9, 1824 |
| Do | water and tide | T. B. Van Gasbeck & B. Sands | Kingston, N. Y. | Dec. 24, 1824 |
| Do | do horizontal | Eb. Thompson | Manchester, N. Y. | Mar. 24, 1825 |
| Do | do do | O. Lathan, L. Bennett, and J. Green | Oneida co., N. Y. | May 28, 1825 |
| Do | do do | Abm. Lippitt | Windsor, O. | Nov. 2, 1825 |
| Do | reacting lever | Luther Davis | Northampton, Mass. | Nov. 4, 1825 |
| Do | cog, suspended by machinery | James Cooper | Staunton, Va. | Mar. 22, 1826 |
| Do | water, conical | Roswell Wilcox | Franklin co., O. | April 19, 1826 |
| Do | inclined horse | Elias Holliday | Schoharie, N. Y. | May 6, 1826 |

LIST OF PATENTS—MILLS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Wheel, water, relieving from back water - - | D. Benedict - | Fabius, N. Y. - | May 10, 1826 |
| Do do and flumes - - - - | Asa Messer - - | Providence, R. I. - | May 18, 1826 |
| Do do applying a head of water, &c. - - | D. McKenzie, M. L. Barbor, S. Dean, & J. McNaughton - | Caledonia, N. Y. - | June 19, 1826 |
| Do do for saw mills - - - - | Thomas Shute - | Tennessee - - | Mar. 6, 1827 |
| Do do - - - - - - | John D. Wilson - | Coridon, Ind. - | June 7, 1827 |
| Do do for saw and grist mills - - - | James Dennison - | Lanier township - | Aug. 22, 1827 |
| Do do screw - - - - - | Elijah Skinner - | Sandwich, N. H. - | Sept. 11, 1827 |
| Do water, screw - - - - - | Eben Beard - - | Charlestown, Mass. - | Jan. 25, 1828 |
| Do do - - - - - | Jos. Torrey - - | Ravenna, O. - | Feb. 28, 1828 |
| Do do spiral - - - - - | James Kelly - | Jackson co., O. - | Feb. 21, 1828 |
| Do do - - - - - | John Bell - - | Sycamore towns'p, O. | May 9, 1828 |
| Do do - - - - - | Abel Greenleaf - | Mexico, N. Y. - | June 5, 1828 |
| Do wind - - - - - | Abner Murray - | Athens, Pa. - | July 8, 1828 |
| Do do horizontal - - - - | Walter Ingalls - | Sanborntonbridge,N.H | Aug. 19, 1828 |
| Do water - - - - - | Orpheus Thompson - | Jericho, Vt. - | Dec. 6, 1828 |
| Do do hinged - - - - - | Mat'w D. Brown - | Mason co., Va. - | Dec. 19, 1828 |
| Do do supplying - - - - | John Houghton - | Green co., Ga. - | Jan. 13, 1829 |
| Do for boats and mills - - - - | Paul Boynton - | Ogdensburg, N. Y. - | April 21, 1829 |
| Do and paddle - - - - - | Benjamin Howard - | Worcester, Mass. - | June 11, 1829 |
| Do current and tide - - - - | Asa Madison - | Detroit, Mich'n - | July 10, 1829 |
| Do chain - - - - - - | J. Hines and E. D. McCord - - | Sandy Hill, N. Y. - | Nov. 20, 1829 |
| Do rolling on an inclined shaft - - - | Stephen Merrick - | Madison co., N. Y. - | Nov. 30, 1808 |

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|---|---|---|---|
| Do heads, accelerating | Archelaus Putnam | Philadelphia, Pa. | July 20, 1811 |
| Do do | David Loring | Canandaigua, N. Y. | Dec. 31, 1813 |
| Wind mill | Jos. Pope | Boston, Mass. | Jan. 26, 1793 |
| Do | Charles Holden | Vermont | Mar. 15, 1798 |
| Do regulating | Thomas Thomson | New Jersey | Jan. 3, 1799 |
| Do | James Sharples | New York | Sept. 15, 1801 |
| Do | John A. Morton | - | Dec. 16, 1801 |
| Do | Rufus Hathaway | Massachusetts | Jan. 20, 1802 |
| Do horizontal | John B. Aveilhe | South Carolina | Mar. 16, 1803 |
| Do do | Samuel Goodwin | Baltimore, Md. | Oct. 31, 1803 |
| Do | Asahel E. Payne | New York | Nov. 19, 1803 |
| Do | Richard Weems | Annapolis, Md. | Sept. 20, 1804 |
| Do | William Stanton, jr. | Lynchburg, Va. | Dec. 26, 1804 |
| Do | John Cooper | Philadelphia, Pa. | May 22, 1806 |
| Do | Uzziel Geer | Norwich, Ct. | July 18, 1808 |
| Do | Russel H. Wright | Boston, Mass. | April 25, 1810 |
| Do and water mill | Moses Pennock | Kennett's Square, Pa. | Feb. 18, 1812 |
| Do | James Barron | Elizabeth City, Va. | July 18, 1816 |
| Do | Pierre Etienne | New York | Nov. 14, 1820 |
| Do water and tide mill | Peter Quidor, jr. | Do | Mar. 21, 1822 |
| Do | William Phoebus | Do | June 24, 1822 |
| Do machinery | John Gue | Waterford, N. Y. | Dec. 31, 1822 |
| Do | Jesse Mollineux | North Hempstead, N.Y. | Jan. 24, 1823 |
| Do | William Coburn | Gardiner, Me. | June 2, 1826 |
| Do | Moses Padley | Ontario, N. Y. | Aug. 31, 1826 |
| Do horizontal | Thomas P. Jones | New Castle, Del. | Feb. 6, 1827 |
| Do | David McColler | Hudson, O. | May 2, 1829 |
| "Wry fly" for mill machinery | Benjamin Tyler | Claremont, N. H. | Mar. 19, 1804 |

## LIST OF PATENTEES—MILLS.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Aveilhe, John B. | South Carolina | Wind mill, horizontal | Mar. 16, 1803 |
| Adams, Rufus W. | Marlborough, Vt. | Mill, grist | Dec. 8, 1808 |
| Abbott, Miles H. | - | Saw mill | Feb. 26, 1811 |
| Andrews, Mark | Kennebec, Mass. | Water wheel by raising or lowering of tide, working | May 4, 1811 |
| Atkinson, Jos. | Amherst, Mass. | Water wheel | Sept. 5, 1811 |
| Alexander, Henry | Baltimore | Grinding ores into powder | Oct. 27, 1813 |
| Andrews, John | Litchfield, N. Y. | Wheels, mode of balancing | May 27, 1814 |
| Andrews, James | Philadelphia, Pa. | Bark, apparatus for preparing quercitron | July 15, 1816 |
| Andrews, John | Dinwiddie co., Va. | Axis, vertical, ink and gudgeon for mills | Aug. 11, 1816 |
| Aveilhe, Jean B. | New York | Mill, sugar | Aug. 28, 1817 |
| Allen, Henry | Fayette co., Tenn. | Current and tide mill | Dec. 30, 1820 |
| Allen, Adolphus | Troy, Pa. | Water wheel | Feb. 8, 1823 |
| Ammon, Jac. | Rockingham, Va. | Water on water wheels, letting | June 8, 1827 |
| Adams, Washington | Guilford, N. C. | Grist mill | July 18, 1827 |
| Averill, Henry | Richland, N. Y. | Grinding grain and paints | April 30, 1829 |
| Aikens, William A. | Berkshire, N. Y. | Flour and meal, bolting | Dec. 3, 1829 |
| Barclay, John | Pennsylvania | Bark mill | July 19, 1794 |
| Betts, Cyrus | New York | Wheels, tide water | Mar. 18, 1797 |
| Bruff, Thos., sen. | Maryland | Coffee mill | Jan. 8, 1798 |
| Brewster, Walter | Connecticut | Water wheel, flume | June 7, 1798 |
| Bolitho, Benj. | Pennsylvania | Rice and powder mill | Feb. 7, 1800 |
| Bent, Cyrus | Ohio | Wheel, sub-water | Mar. 7, 1803 |
| Blake, Anson | Lincoln, Ken. | Saw gauge setter for mills | Nov. 27, 1807 |
| Bartlett, Samuel | East Windsor, Ct. | Rolling tub mills | July 19, 1808 |
| Brown, William | Baltimore | Mill for breaking plaster | Dec. 8, 1808 |

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| Berrien, Rid. | New York | Chain wheel, overshot strap or | Feb. 13, 1809 |
| Bakewell, Wm. L. | New Haven, Ct. | Wheel, wind or water | Aug. 18, 1809 |
| Belknap, Stephen | New York | Chain bands with buckets, &c., to give motion to mills | Dec. 28, 1809 |
| Barnum, Thos. G. | Sharon, Ct. | Hopper blower | Jan. 18, 1810 |
| Bailey, Jer. | Chester co., Pa. | Raising grain by blowing | Mar. 5, 1810 |
| Brown, Ephm. | - - | Mill, horse | April 10, 1810 |
| Belknap, Stephen, and Samuel Merrill | Georgetown, D. C. | Saw mill, descending | Feb. 15, 1811 |
| Bolton, Amos | Fauquier co., Va. | Gate, mode of shutting water | June 19, 1812 |
| Bailey, Jer. | Kennett's Square, Pa. | Elevating grain, flour, meal, &c. | June 19, 1812 |
| Bronwer, Samuel | New York | Water mills | Nov. 27, 1812 |
| Bissell, Luther | Hartwick, N. Y. | Saw mill | July 3, 1813 |
| Bryant, Eb. | New London, Ct. | Mill | Feb. 8, 1814 |
| Breasted, Peter | Green co., N. Y. | Paints, machine for grinding | April 18, 1814 |
| Briggs, Jos. | Schoharie, N. Y. | Head block for saw mill carriage | July 9, 1814 |
| Brewster, Samuel | Middlesex, N. J. | Saw mill, elevating | Oct. 30, 1815 |
| Do | Do | Grist mills | Mar. 15, 1816 |
| Barron, James | Elizabeth City, Va. | Mill, wind | July 18, 1816 |
| Burr, Theodore | Burrhaven, Pa. | Water wheel, improvement on Rumsey's and McComb's | April 3, 1817 |
| Beidleman, Henry | Washington co., Va. | Chain wheels | Feb. 8, 1819 |
| Baldwin, Thomas | New Castle, Del. | Snuff mill | June 22, 1819 |
| Beauchamp, David | Elizabethtown, Va. | Water wheel | Oct. 10, 1820 |
| Bulkley, Ralph | New York | Wheel, oblique water | Aug. 7, 1821 |
| Bruff, John | Somerset co., Md. | Saw mill | Aug. 16, 1821 |
| Bulkley, Ralph | New York | Wheel, right and left chain | Oct. 8, 1821 |
| Burns, Rob. | Mifflin co., Pa. | Mills, increasing the power of | June 20, 1822 |
| Bicknall, John | Buckfield, Me | Grinding grain | Dec. 11, 1822 |
| Bisbee, Asa | N. Yarmouth, Me. | Extending power | Jan. 27, 1824 |
| Bradford, John | Lexington, Ky. | Wheel, inclined horse | May 14, 1824 |
| Bailey, Hy. | Hartford, Ct. | Mill, cast iron | May 14, 1825 |
| Berry, A. and C. | Poughkeepsie, N. Y. | Pendulum and lever power | Mar. 25, 1826 |

LIST OF PATENTEES—MILLS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Benedict, D. | Fabius, N. Y. | Water wheels, relieving from back water | May 10, 1826 |
| Bennis, James | Worcester, Mass. | Grist mill, improvement on Bicknell's | Nov. 17, 1826 |
| Berry, W. G., and J. T. Osborn | Cincinnati, O. | Saw mill, locomotive steam | Nov. 26, 1826 |
| Bencine, Anthony | Caswell, N. C. | Grist mill | Jan. 16, 1827 |
| Benslow, Wm. | Guilford co., N. C. | Do | Jan. 19, 1827 |
| Bencine, Anthony | Milton, N. C. | Saw mill | June 4, 1827 |
| Broyles, Cain | Tellico, Ten. | Propelling machinery by weights | Oct. 19, 1827 |
| Beard, Eben. | Charlestown, Mass. | Water wheel, screw | Jan. 25, 1828 |
| Bull, Aaron | Caroline, N. Y. | Bark mill | Mar. 27, 1828 |
| Bell, John | Sycamore Town'p O. | Water wheel | May 9, 1828 |
| Baker, David | Ipswich, Mass. | Saw mill, curvilinear | Aug. 7, 1828 |
| Brown, Mathew D. | Mason co , Va. | Wheel, water, hinged | Dec. 19, 1828 |
| Baker, Thomas | Statesburg, S. C. | Grist mill | Jan. 21, 1829 |
| Brown, George | Deerfield, N. Y. | Saw mill | April 7, 1829 |
| Boynton, Paul | Ogdensburg, N. Y. | Water wheels for boats and mills | April 21, 1829 |
| Curtiss, Jona. | Pennsylvania | Mills | Aug. 24, 1797 |
| Clarke, Aaron | New York | Saw mill | Mar. 30, 1798 |
| Chase, Hadilard | Do | Mills | Dec. 16, 1799 |
| Coates, Moses | Pennsylvania | Mill, saw | April 1, 1802 |
| Cowen, James | Massachusetts | Mill wheel | Dec. 14, 1802 |
| Cest, Jacob | Pennsylvania | Mill, paint | Dec. 3, 1803 |
| Copes, Jos | Georgetown, Del. | Mill, grist | May 2, 1805 |
| Cooper, John | Philadelphia, Pa. | Mill, wind | May 22, 1806 |
| Cobb, Isaac | Walpole, N. H. | Pendulum applied to mill machinery | Mar. 1, 1809 |

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|---|---|---|---|
| Cooke, Elisha | Bethlehem, Mass. | Sawing timber, &c., without a stub short | Jan. 20, 1810 |
| Croosbie, Rid. | Newark, N. J. | Powder, granulating | Feb. 17, 1812 |
| Christy, Rob. | Jefferson co., Va. | Elevator for raising fluids or grain | Nov. 21, 1812 |
| Churchman, Caleb, and George Martin | Upper Chichester, Pa. | Mill, bark | July 16, 1813 |
| Cooper, David | Jericho, N. Y. | Water wheel, improvement on Farnham's | May 12, 1814 |
| Cornwell, Wm. | Accomack, Va. | Water wheel, horizontal | Dec. 15, 1814 |
| Cohoon, Thomas | Washington City | Saw mill | Jan. 5, 1816 |
| Cleaveland, Josiah | St. Mary's co., Md. | Tide mill | Oct. 22, 1816 |
| Cornwell, Wm. | Accomack, Va. | Horse mill | Dec. 14, 1816 |
| Collins, Daniel | Genesee co., N. Y. | Mill, saw | Jan. 6, 1818 |
| Cooper, Peter | New York | Motion, rotary from alternate | April 6, 1820 |
| Cooper, James | Staunton, Va. | Cog wheels, suspended by machinery | Mar. 22, 1826 |
| Coburn, William | Gardiner, Me. | Mills, wind | June 2, 1826 |
| Coe, Avery and John | Guilford co., N. C. | Grist mill | July 21, 1827 |
| Call, Isaiah | Woodstock, Vt. | Saw mill | April 28, 1828 |
| Crail, Jos. | Warren, O. | Grist mill | June 19, 1828 |
| Cook, Samuel | Mendon, Mass. | Paint mill, trunked mouth | Mar. 3, 1829 |
| Carrington, James | Wallingford, Ct. | Coffee mills | April 3, 1829 |
| Chase, Mark L. | Frankfort, Me. | Grist mill | Dec. 23, 1829 |
| Dickerson, Jonathan | Morris co., N. J. | Tide mills | July 30, 1791 |
| Dawson, Robert | Delaware | Bolting cloth | May 12, 1796 |
| Dutheur, Henry | South Carolina | Saw mill | Aug. 18, 1797 |
| Dearborne, Benj. | Massachusetts | Mill, double centred | April 30, 1799 |
| Du Pont, E. J. Demones | Wilmington, Del. | Powder, granulating | Nov. 23, 1804 |
| Dupree, Lewis | Charleston, S. C. | Screw, pendulum | April 11, 1807 |
| De Lacy, John | New York | Saw, grist, and other mills, improvement in working | Mar. 28, 1812 |
| Danielson, Asa | Otsego, N. Y. | Wheels, using successively, letting water on | May 16, 1815 |
| Donaldson, Richard A., and Jos. L. Wheeler | Newark, N. J. | Wheel, horizontal water | Sept. 25, 1815 |
| Dalmas, Charles | Wilmington, Del. | Gunpowder, granulating | April 26, 1816 |

LIST OF PATENTEES—MILLS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Dalie, Silas | Cumberland, Mass. | Water wheel, horizontal | May 28, 1816 |
| Deming, George | Burlington, Vt. | Wheel, horizontal | July 22, 1819 |
| Danley, Ed. C. | Fredonia, Ind. | Cog wheels, elliptical | May 12, 1820 |
| Dennis, Rob. | Rahway, N. J. | Steam power, applying to circular motion | Nov. 3, 1825 |
| Davis, Luther | Northampton, Mass. | Wheel, reacting lever | Nov. 4, 1825 |
| Delap, Abm., and Avery Eve | Guilford co., N. C. | Grist mill | May 31, 1827 |
| Demison, James | Lancer township, O. | Water wheel for saw and grist mill | Aug. 22, 1827 |
| Evans, Oliver | Philadelphia, Pa. | Manufacturing flour and meal | Dec. 18, 1790 |
| Do | Pennsylvania | Stones, burr mill | May 28, 1796 |
| Do | Do | Screw mill for breaking and grinding hard substances | Feb. 14, 1804 |
| Do | Philadelphia, Pa. | Flour, manufacturing | Jan. 22, 1808 |
| Ennalls, Jos. | New Market, Md. | Saw and grist mill | April 10, 1810 |
| Evans, Oliver | Philadelphia, Pa. | Mill, saw | April 15, 1811 |
| Ewing, John, and David Dickey | Oxford, Pa. | Pump for elevating meal, grain, &c. | Oct. 2, 1813 |
| Ewell, Thomas | Georgetown, D. C. | Powder, manufacturing | Dec. 7, 1813 |
| Elder, John | Hamilton, Mass. | Saw mill for dye woods | Feb. 16, 1816 |
| Ellicot, Thomas | Pennsylvania | Mill, grist | Feb. 17, 1816 |
| Elder, John | Hamilton, Mass. | Saw mill for dye woods | April 11, 1816 |
| Evans, John | Daviess co., Ind. | Wheel, water | April 21, 1818 |
| Edwards, John | Urbana, O. | Do do | May 25, 1818 |
| Eales, Thomas | Newbury, Vt. | Do do | April 29, 1819 |
| Etienne, Pierre | New York | Wind mill | Nov. 14, 1820 |
| Elliot, James | Philadelphia, Pa. | Bark mill | May 24, 1822 |

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|---|---|---|---|
| Eddy, Isaac | Boston, Mass. | Paint and drug mill | Mar. 19, 1824 |
| Eve, Joseph | Augusta, Geo. | Power by metallic bands, communicating | May 1, 1828 |
| Epsy, J. P., & A. Young | Philadelphia, Pa. | Water, drawing from forebays, and discharging on water wheels | Sept. 11, 1829 |
| Ely, James C. | New York | Saw mill, floating | Oct. 21, 1829 |
| Farnham, Joel | Otsego, N. Y. | Water wheel, improvement on McComb's reacting | Nov. 23, 1808 |
| Ford, Eb. | Charleston, S. C. | Floating mill and silent fisher | Dec. 21, 1809 |
| Frisbie, Jeremy | Pennsylvania | Mills, constructing | June 30, 1810 |
| Fountain, D. & Minor | Eastern Shore, Md. | Mill, saw | April 5, 1817 |
| Fettrow, And. | York, Pa. | Plaster mill | May 28, 1818 |
| Foster, A. W., and J. Hugus | Greensburg & Hempfield, Pa. | Rotary from rectilineal motion | April 26, 1819 |
| Fulton, Gardner | Philadelphia, Pa. | Gunpowder, granulating | Aug. 21, 1819 |
| Fowkes, Samuel | Catskill, N. Y. | Mill, vertical cylindrical foot | Sept. 13, 1824 |
| Fletcher, Jabez B. | Richmond, Me. | Flume for water wheels | Feb. 16, 1825 |
| Fowkes, Samuel | Catskill, N. Y. | Grinding and shelling corn | May 4, 1825 |
| Flagg, David, jr. | Gardiner, Me. | Mill, family | Feb. 23, 1826 |
| Foss, Cotton | Madison, O. | Bark mill | Oct. 25, 1826 |
| Forwood, William W. | Hartford co., Md. | Grist mill | June 15, 1827 |
| Greene, Caleb | Massachusetts | Mill, paint | July 23, 1801 |
| Goodwin, Samuel | Baltimore, Md. | Wind mill, horizontal | Oct. 31, 1803 |
| Geer, Uzziel | Norwich, Ct. | Do do | July 18, 1808 |
| Goulding, Jos. | Leicester, Mass. | Mills | Mar. 1, 1811 |
| Gale, Luther | Berkshire co., Mass. | Mill, bark | Mar. 20, 1811 |
| Gore, Samuel K. | Bradford co., Pa. | Saw mill, travelling saw cut | May 4, 1812 |
| Grannis, John | Cheshire, Ct. | Horse mill by using weights | May 12, 1812 |
| Grandin, William | Hector, N. Y. | Mill, pendulum | Jan. 6, 1813 |
| Gale, Luther | Lenox, Mass. | Bark mill | May 16, 1815 |
| Green, John, sen. | Virginia | Water wheel, overshot | Mar. 5, 1816 |
| Griswold, Ira | Granville, Ct. | Wheel, water | April 16, 1817 |

LIST OF PATENTEES—MILLS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Gates, Nath'l, & Alex. Maxwell | Delhi, N. Y. | Tide wheel | Sept. 13, 1820 |
| Giraud, J. J. | Baltimore, Md. | Wheel, horizontal pedal water | Feb. 3, 1821 |
| Gallup, William | Norwalk, O. | Wind and water wheel | Mar. 29, 1821 |
| Goddard, Charles | Sabine Hall, Va. | Wheel, Baker's water | Sept. 27, 1821 |
| Gray, George H. D. | Southampton, Va. | Tide or current mill | Sept. 25, 1822 |
| Gue, John | Waterford, N. Y. | Wind mill machinery | Dec. 31, 1822 |
| Guernsey, Sylvanus | Fenner, N. Y. | Water wheel, sliding gear | April 12, 1824 |
| Garretson, Isaac | Bellefontaine, O. | Steam, wind, and water, applying as a power | Mar. 25, 1826 |
| Graham, Anson B. | Lee, Mass. | Saw mill, improvement on Johnson's | Sept. 28, 1827 |
| Galbraith, John | Maury co., Tenn. | Horse mill lever | Mar. 6, 1828 |
| Gibbs, George M. | Williams parish, S. C. | Water pressure for propelling machinery | Mar. 10, 1828 |
| Greenleaf, Abel | Mexico, N. Y. | Water wheel | June 5, 1828 |
| Hodge, Sol'n, & Jona. Dorr | Washington, N. Y. | Hand mill for picking mill stones | Oct. 23, 1792 |
| Holden, Charles | Vermont | Wind mill | Mar. 15, 1798 |
| Hathaway, Rufus | Massachusetts | Do | Jan. 20, 1802 |
| Holly, John W. | Connecticut | Grist mill | Mar. 27, 1802 |
| Humiston, James, jr. | Wallingford, Ct. | Sluice and cast iron wheels | May 10, 1805 |
| Hubbel, Ephraim | Middlebury, Vt. | Wheel, water | May 1, 1806 |
| Hale, Ez. | Haverhill, Mass. | Grist mill | Feb. 22, 1807 |
| Hamaker, Christ'n | Lancaster, Pa. | Mills | May 21, 1807 |
| Huling, George | Shaftsbury, Vt. | Saw mill, circular | Nov. 24, 1809 |
| Harris, George | Philadelphia | Saw mill to work by horse, hand, or other power | May 3, 1810 |

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| Hinman, Luke C., Luther Bissel, & Moses Barnes | Otsego, N. Y. | Water wheels, machine for moving two at a time | June 7, 1811 |
| Hart, Josiah, & Lester Fling | Cheshire, N. H. | Saw mill, save all | Jan. 18, 1812 |
| Hart, Webb | Cheshire, Ct. | Saw mill | May 26, 1812 |
| Homan, Dan'l | Brookhaven, N. Y. | Sifting meal | Mar. 8, 1813 |
| Hopkins, Samuel | Rahway, N. J. | Mustard, preparation of flour | Aug. 19, 1813 |
| Hort, Benjamin S. | Georgetown, S. C. | Flood gate | Oct. 9, 1813 |
| Hershe, Abm. | Lancaster, Pa. | Hopper filler for bolting flour | Jan. 15, 1814 |
| Hart, Webb | Accomack, Va. | Machinery, application of horse power to | Jan. 22, 1817 |
| Hopkins, Samuel | Philadelphia | Mustard, preparation of flour of | May 31, 1817 |
| Herrick, Samuel | Clermont co., O. | Saw gate, machine for giving motion | July 21, 1817 |
| Henrie, Arthur | Miami, O. | Water wheel, canal, race, and inclined plane | Oct. 28, 1818 |
| Hiatt, Zach'l | Indiana | Wheel, perpendicular spiral | Aug. 20, 1819 |
| Hale, Elisha | Baltimore | Wheel, water | July 5, 1820 |
| Howard, Horace | Wooster, O. | Wheel, horizontal water | Dec. 26, 1821 |
| Hascall, J. D. | Likay, N. Y. | Grist mill | Mar. 9, 1822 |
| Huckaby, Brittain | Huntsville, Ala. | Running gear for mills | Aug. 16, 1824 |
| Hord, E., & B. Browning | Fleming co., Ky. | Flour, preserving | Mar. 12, 1825 |
| Holliday, Elias | Schoharie, N. Y. | Wheel, inclined horse | May 6, 1826 |
| Harris, F., & J. Wilson | Albany, N. Y. | Grist mill | June 9, 1826 |
| Holcomb, Allen | Butternuts, N. Y. | Mill, paint | May 14, 1827 |
| Hilderbrand, Mich'l | McMinn co., Tenn. | Water wheels, letting water on | Nov. 10, 1827 |
| Holland, Samuel | Hanover, O. | Grist mill | Mar. 1, 1828 |
| Houghton, Jno. | Green co., Ga. | Water wheel, supplying water to | Jan. 13, 1829 |
| Howard, Benjamin | Worcester, Mass. | Water and paddle wheels | June 11, 1829 |
| Hines, J., & E. D. McCord | Sandy Hill, N. Y. | Chain wheel | Nov. 20, 1829 |
| Horford, William, jr. | Washington town'p, O. | Power machine | Dec. 31, 1829 |

LIST OF PATENTEES—MILLS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Johnson, John | Knox co., Ind. | Wheel, sub water | Mar. 21, 1808 |
| Ives, Fitch | Lisle, N. Y. | Spiral float mill wheel | July 5, 1809 |
| Johnson, John | Charleston, S. C. | Flexible platform, to give motion to wheels, &c. | Nov. 22, 1809 |
| Jones, Adonijah, jr. | Bethlehem, Mass. | Sawing timber | Mar. 14, 1810 |
| Isaacs, Moses, & John Wilbank | Philadelphia, Pa. | Wheel, horizontal, inclined | Oct. 14, 1817 |
| Isaacs, Moses | Do | Wheel, wind | May 28, 1818 |
| Do | New York | Wheel, inclined circular plane | Nov. 17, 1819 |
| Ives, Jos. | Do | Mill, grist | Dec. 2, 1825 |
| Johnson, Israel, jr. | Villenovia, N. Y. | Mill, saw | Feb. 8, 1826 |
| Johnson, Sol. R. | New York | Saw mill, horse | Oct. 25, 1826 |
| Jacob, Justin | Montreal, Canada | Pendulum motion for machinery | Dec. 29, 1826 |
| Jones, Thomas P. | New Castle, Del. | Wind mill, horizontal | Feb. 16, 1827 |
| Ingalls, Walter | Sanbornton Bridge, N. Hampshire | Do do | Aug. 19, 1828 |
| Johnson, Israel, jr. | Moriah, N. Y. | Saw mill | May 7, 1829 |
| Keyser, Henry | Philadelphia, Pa. | Gunpowder, manufacturing | Aug. 10, 1791 |
| Keyser, George | Do | Mill, powder | July 27, 1803 |
| Kent, Emanuel | Baltimore, Md. | Mill, plaster | Sept. 14, 1804 |
| Kelsey, Israel | Hartford, Ct. | Mill, horizontal | Aug. 25, 1809 |
| King, Jesse | Florida, N. Y. | Potatoes, machine for grinding | Mar. 1, 1814 |
| Kells, Jos. | New York | Constant motion from irregular power | April 1, 1815 |
| Keller, J., & S. J. Burt | Cincinnati, O. | Wheel, hollow, inclined, horse | April 23, 1824 |
| Kendall, William, jr. | Waterville, Me. | Motion, extending and multiplying power | Jan. 16, 1826 |
| Key, Thomas | Henry co., Ga. | Water wheels, letting water on | July 18, 1826 |

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| Kendall, William | Waterville, Me. | Saw mill, reciprocating | Nov. 23, 1827 |
| Do | Do | Do do | Dec. 31, 1827 |
| Kelly, James | Jackson co., O. | Water wheel, spiral | Feb. 21, 1828 |
| King, John F. | Waterford, N. Y. | Paddle gate | Nov. 29, 1828 |
| Kemp, Benjamin M. | Fort Plain, N. Y. | Grist mill | Jan. 31, 1829 |
| La Paype, (Paiñe) | Baltimore, Md. | Cattle mill | Nov. 4, 1805 |
| Lewis, Marshall | Chenango, N. Y. | Saw mill | May 24, 1811 |
| Lathrop, Rufus | West Springfield, Ms. | Mill wheel | Nov. 12, 1812 |
| Loring, David | Canandaigua, N. Y. | Wheel heads | Dec. 31, 1813 |
| Lucas, Jona. | Charleston, S. C. | Flood gates | Nov. 6, 1819 |
| Lyman, George | Charles parish, La. | Wheel, inclined | Mar. 4, 1822 |
| Leah, Robert | Delhi, N. Y. | Vertical tide wheel | May 31, 1822 |
| Langdon, B., & J. C. & J. Trash | Troy, N. Y. | Grain, grinding | Sept. 26, 1823 |
| Lathan, O., L. Bennett, & J. Green | Oneida co., N. Y. | Wheel, horizontal water | May 28, 1825 |
| Lippitt, Abm. | Windsor, O. | Do do do | Nov. 2, 1825 |
| Lawing, S., & J. Monteith | Statesville, N. C. | Grist mill, improvement on Mendenhall's | June 11, 1827 |
| Macomb, James | Princeton, N. J. | Wheels for mills, horizontal water | Aug. 26, 1791 |
| McKean, Rob. | New Jersey | Steam saw mill | Mar. 24, 1798 |
| Martin, John | New York | Wheel, regulating spiral tide | April 27, 1798 |
| Morton, John A. | | Mill, wind | Dec. 16, 1801 |
| McLean, Charles, and Sol. Loomis | Hartford, Ct. | Mills, tub | Sept. 25, 1805 |
| Merrick, Stephen | Madison co., N. Y. | Wheel, rolling in an inclined shaft | Nov. 30, 1808 |
| Mans, Samuel, & Jerry Black | Pennsylvania | Mill works | Feb. 18, 1809 |
| Miller, Jos. L. | Brookfield, N. Y. | Mill, screw grist | Mar. 29, 1810 |
| Miner, Jonathan | Saratoga co., N. Y. | Water wheels for mills | April 2, 1810 |
| Miller, William | Lampeter, Pa. | Mill stone | Aug. 15, 1811 |

LIST OF PATENTEES—MILLS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Mack, Elisha | Sheffield, Mass. | Water wheel | Nov. 2, 1811 |
| Maher, William | Rome, N. Y. | Gate, balance water | Nov. 12, 1811 |
| Mayo, William | Henrico, Va. | Grinding corn in the cob | May 15, 1812 |
| Moore, Alex. D. | New Haven co., N.C. | Grinding and pounding | Aug. 7, 1813 |
| Morgan, Elisha | Clinton co. N. Y. | Mill, saw | Jan. 24, 1815 |
| Morey, Samuel | Boston, Mass. | Water power, application to water wheels | July 14, 1815 |
| Morton, John A. | Baltimore, Md. | Horse wheel, vertical | July 21, 1815 |
| Mallory, Meredith | Benton, N. Y. | Water power to machinery | Mar. 3, 1817 |
| Morey, Samuel | Oxford, N. H. | Tide and current water wheel | Mar. 13, 1817 |
| Mott, Edward | Philadelphia, Pa. | Friction, preventing, or anti-attrition | Oct. 4, 1817 |
| McKarny, Alex. | West Tennessee | Water wheel, spiral screw | Feb. 10, 1818 |
| Manter, Grafton | Londonderry, N. H. | Millstones, casting faces | Dec. 8, 1818 |
| Moody, Nathan | Hallowell, Mass. | Motion, alternate lateral | Feb. 19, 1819 |
| Merrow, John, and R. McKee, jr. | East Hartford, Ct. | Gunpowder | April 19, 1822 |
| Messer, Asa | Providence, R. I. | Flumes for mills | Nov. 19, 1822 |
| Maze, John | Greenbrier co., Va. | Wheel, vertical water | Jan. 10, 1823 |
| Mollineux, Jesse | North Hempstead, N.Y. | Wind mill | Jan. 24, 1823 |
| Maltby, Benjamin | New York | Horse power applied to machinery | April 11, 1825 |
| McIntosh, W. W., and William Barnheart | Aurelius, O. | Pendulum power regulated by fly wheel | April 13, 1825 |
| Messer, Asa | Providence, R. I. | Water wheels and flumes, constructing | May 18, 1826 |
| McKenzie, D., M. L. Barbor, S. Dean, & J. McNaughton | Caledonia, N. Y. | Water wheels, applying a head of water to any number of | June 19, 1826 |

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| Mendenhall, Moses | Greensburg, N. C. | Mill, grist | Oct. 20, 1826 |
| Morse, John G. | Randolph co., N. C. | Grist mill, crusher and sheller | Mar. 20, 1827 |
| McCulloch, Rob. & Thos. | Albemarle co., Va. | Water power, application to wheels | May 26, 1827 |
| Moore, Sidney & Porteus | Mount Tirzah, N. C. | Mill, sugar loaf grist | June 15, 1827 |
| Montgomery, John | Sangerfield, N. Y. | Bark mill | May 29, 1828 |
| Murray, Abner | Athens, Pa. | Wind mill | July 8, 1828 |
| Medley, Reuben | Bloomfield, Ky. | Grist mill | Sept. 5, 1828 |
| McColler, David | Hudson, O. | Wind mill | May 2, 1829 |
| Madison, Asa | Detroit, Mich. | Current and tide wheel | July 10, 1829 |
| Mitchell, Rob. | Cynthiana, Ky. | Power applied to machinery, horse, water, or steam | Oct. 10, 1829 |
| Newberry, Josiah W. | Luzerne, Pa. | Mills, application of water power to work | June 28, 1815 |
| Norcross, Leon'd | Livermore, Me. | Millstones, machine for dressing | May 6, 1823 |
| Nichols, Reuben | New Orleans | Sawing timber by steam power | July 21, 1826 |
| Northorp, Jedediah | Woodbridge, Ct. | Mill, grist | July 31, 1826 |
| Newman, Thomas | Guilford co., N. C. | Do do | Feb. 6, 1827 |
| Neer, Charles | Waterford, N. Y. | Spur for bevel gearing | Mar. 9, 1827 |
| Old, Ezra, and Pliny Upham | Worcester, Mass. | Saw mill | Dec. 24, 1809 |
| Osborn, John, jr. | Litchfield, Ct. | Water wheel, horizontal | May 29, 1811 |
| Owen, Ethan | Prince George co., Va. | Saw mill to be worked by animal power | Oct. 1, 1812 |
| Owings, John | Baltimore, Md. | Water mill | Jan. 25, 1814 |
| Olds, Jared | Meriden, Ct. | Bark mill | April 18, 1814 |
| Ormsby, John, and T. Cohoon | Washington City, D. C. | Grist mill | Jan. 4, 1816 |
| Owings, John | Baltimore, Md. | Wheel, floating | Sept. 9, 1816 |
| Ordromant, John | New York | Wheel, balance or fly | April 26, 1819 |
| Oliver, Benjamin L. | Salem, Mass. | Crank, anti-friction | Mar. 9, 1821 |
| Overmore, Benjamin | Greensborough, N. C. | Grist mill | Feb. 28, 1827 |
| Do | Do | Saw mill | Dec. 11, 1827 |
| Pope, Jos. | Boston, Mass. | Mill, wind | Jan. 26, 1793 |
| Payne, Thomas | New York | Mill, saw | Dec. 2, 1799 |

LIST OF PATENTEES—MILLS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Palmer, William | New York | Stone saw mill | Dec. 31, 1802 |
| Paine, Asahel E. | Do | Wind mill | Nov. 19, 1803 |
| Pryor, Thos. W. | Philadelphia, Pa. | Bark mill | May 21, 1805 |
| Pease, Ob., and Asher Donalds | Norfolk, Ct. | Bark and dye wood mill | Mar. 18, 1808 |
| Pilsbury, Paul | Newbury, Mass. | Bark mill | Sept. 22, 1808 |
| Parmelee, David | Redding, Ct. | Water wheel, horizontal | Nov. 20, 1809 |
| Putnam, Archelaus | Philadelphia, Pa. | Wheel head, accelerating | July 20, 1811 |
| Pennock, Moses | Kennett's Square, Pa. | Mill, wind and water | Feb. 18, 1812 |
| Parkins, Jac. | Newburyport, Mass. | Mill, water | June 26, 1813 |
| Pelton, David | Lyne, N. H. | Wheel mill for grinding bark | Sept. 30, 1814 |
| Peck, George | Whitestown, N. Y. | Water wheels | April 26, 1815 |
| Pinnell, William | Giles co., W. Tenn. | Wheel, horizontal and perpendicular water | Jan. 10, 1817 |
| Palmer, John | Cincinnati, O. | Wheel, inclined | Dec. 29, 1818 |
| Phœbus, William | New York | Wind mills | June 24, 1822 |
| Pettee, Otis | Newton, Mass. | Motion of machinery, changing | Mar. 15, 1825 |
| Padley, Moses | Ontario, N. Y. | Mill, wind | Aug. 31, 1826 |
| Potes, Henly | Christianburg, Va. | Water gate for penstocks or flumes | Jan. 9, 1827 |
| Packard, Origen | Wilmington, Vt. | Paint mill, horizontal cast iron | Feb. 12, 1827 |
| Do | Do | Water gates, opening and shutting | Feb. 12, 1827 |
| Philips, David | Jefferson co., Miss. | Millstone | April 3, 1829 |
| Post, C. and J. W. | Washington, D. C. | Mill, iron | April 11, 1829 |
| Parkinson, William | Wheeling, Va. | Grist mill | July 31, 1829 |
| Quimly, Jos. | Boston, Mass. | Saw mill | April 25, 1806 |
| Do | Wilmington, N. C. | Mill, regulated | Feb. 3, 1812 |

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|---|---|---|---|
| Quinn, Henry | Huntington, N. J. | Saw mill | Feb. 21, 1815 |
| Quidor, Peter, jr. | New York | Wind, water, and tide mills | Mar. 21, 1822 |
| Rumsey, James | Berkeley co., Va. | Mill, improvement in Barker's | Aug. 26, 1791 |
| Do | Do | Working mills | Aug. 26, 1791 |
| Ring, Elias | New York | Spiral tide water wheel | Dec. 10, 1797 |
| Reed, Ezekiel | Massachusetts | Water wheel, horizontal | Feb. 14, 1799 |
| Richardson, Her. and Levi Richardson | Do | Saw mill | April 28, 1802 |
| Rew, Ephraim | Canandaigua, N. Y. | Mill wheel | Feb. 22, 1809 |
| Reuk, Aaron | Chillicothe, Ohio | Water wheels for mills | Dec. 5, 1810 |
| Rich, Joseph | Madison co., N. Y. | Flour, manufacturing | Jan. 27, 1812 |
| Richardson, Jos., and Benj. Stout | Bucks co., Pa. | Bark, grinding and packing | June 6, 1812 |
| Reynolds, Thos. | West Fallowfield, Pa. | Mill stones, machinery for raising | Nov. 8, 1814 |
| Rittal, Francis | Lincoln, Mass. | Tide mill | Jan. 28, 1815 |
| Reynolds, Jona. | Dutchess, N. Y. | Wind and water wheel | June 24, 1815 |
| Richardson, Israel J. | Geneva, N. Y. | Wheel, floating valve | Sept. 26, 1816 |
| Robinson, Jos. B. | Cincinnati, Ohio | Wheel, inclined horse | Oct. 14, 1816 |
| Read, John | Line, Ct. | Wheel, trailing | Mar. 6, 1818 |
| Rogers, Daniel | Newburgh, N. Y. | Gunpowder, granulating | Aug. 26, 1818 |
| Redheiffer, Charles | Philadelphia, Pa. | Power gaining machinery | July 11, 1820 |
| Richardson, Wm. H. | Baltimore, Md. | Gunpowder, granulating | Aug. 3, 1822 |
| Rice, Wanton | Athens, Pa. | Mill, cast iron spindle grist | Oct. 1, 1823 |
| Ryon, Isaac | Bridgewater, Mass. | Mill, saw | Nov. 24, 1825 |
| Do | Do | Mill, grist | June 29, 1826 |
| Reynolds, Jona. | Amenia, N. Y. | Mill, horizontal | Mar. 15, 1827 |
| Rice, Lewis | Clarksborough, N. J. | Sack shoulderer | Aug. 3, 1827 |
| Robinson, James | Buckskin Town'p, O. | Grist mill | Dec. 11, 1827 |
| Ridgway, Benj. S. | Charleston, S. C. | Mill machinery, impelling power of | Feb. 6, 1829 |
| Reynolds, Sullivan | Guilford, N. Y. | Boxes for all kinds of machinery, cast and wrought iron or wood | June 13, 1829 |

LIST OF PATENTEES—MILLS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Reeder, Jesse | Lebanon, Ohio | Milling | Oct. 31, 1829 |
| Saltonstall, G. F. | North Carolina | Meal, cooling and conveying up | Aug. 21, 1801 |
| Sharples, James | New York | Wheels within cylinders | Sept. 15, 1801 |
| Do | Do | Mills, wind | Sept. 15, 1801 |
| Saltonstall, G. F. | North Carolina | Saw mill, and for cleaning cotton | Jan. 4, 1803 |
| Staples, John, jr. | New York | Tide motion applied to machinery | Mar. 18, 1803 |
| Do | Do | Mill wheel | Feb. 17, 1804 |
| Stanton, Wm., jr | Lynchburg, Va. | Wind mill | Dec. 26, 1804 |
| Spafford, Jacob | Ipswich, Mass. | Mill, saw | June 23, 1807 |
| Smith, William | Gloucester, N. J. | Wheel for elevating water for mills | Aug. 12, 1808 |
| Stubbs, William | Chillicothe, O. | Wheel, tide or river | May 1, 1809 |
| Sweet, John | Bethlehem, Mass. | Sawing timber, &c., without a stub short | Feb. 15, 1810 |
| Sawin, John P., and Jacob Skinner | Roxbury, Mass. | Mill, tide | May 17, 1810 |
| Sawin, John P. | Do | Friction cylinders, co-operating | Jan. 24, 1811 |
| Schoolfield, Benj., and William Stanton | Lynchburg, Va. | Water wheel by balance gates, spiral | April 25, 1811 |
| Smelzer, John | Adams co., Va. | Flour, worm for cooling | May 6, 1813 |
| Sawyer, Abm. | Chester, Vt. | Grist mill | July 20, 1813 |
| Springer, Jesse | Cape May, N. J. | Saw mill, wind | Dec. 27, 1815 |
| Smith, Jarvis | Queen's co., N. Y. | Wheel, letting water on flutter | July 1, 1817 |
| Simpson, William | Wilkes co., Geo. | Motion from one wheel to another, communicating | Feb. 19, 1818 |
| Smith, Burrows | Cincinnati, O. | Coffee mill | June 9, 1818 |
| Sizer, Jona., adm'r of Zach. Waterhouse | New London, Ct. | Do | June 12, 1818 |

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| Sands, Abm. | Georgetown, D. C. | Water wheel | Aug. 28, 1811 |
| Skinner, Elijah | Sandwich, N. H. | Paint mill | Dec. 28, 1818 |
| Sears, Nathan | Hudson, N. Y. | Bark, machine for breaking | Oct. 31, 1820 |
| Sanford, William | New York | Horse mill | April 5, 1821 |
| Seal, Robert | Delhi, N. Y. | Wheel, vertical tide | May 31, 1822 |
| Savage, John Y. | Raleigh, N. C. | Rectilineal into rotary motion | Aug. 9, 1823 |
| Smith, Archibald | Rhinebeck, N. Y. | Do do | Aug. 30, 1823 |
| Stedwell, James, 3d | Carmel, N. Y. | Wheel, crank | Nov. 25, 1823 |
| Schuyler, P. J., and E. D. Hitchcock | Stillwater, N. Y. | Wheel, iron water | Dec. 20, 1823 |
| Sullivan, Wm. C. | Jefferson co., Ind. | Horizontal double rotary machine | June 5, 1824 |
| Stevens, John | E. Hoboken, N. J. | Rendering rapids and shallow rivers navigable | June 8, 1824 |
| Shaw, N. H. | Charlotte Hall, Md. | Wheel, an inclined propelling | Oct. 9, 1824 |
| Sperry, Samuel | Nashville, Ten. | Water wheels, letting water on | Nov. 9, 1824 |
| Sawyer, J., and E. Clark | Royalston, Mass. | Mill stones, concave and convex | Mar. 18, 1826 |
| Stockman, Moody | Hampton, N. H. | Grist mill, improvement on Bicknell's | April 18, 1826 |
| Shute, Thomas | Tennessee | Water wheel for saw mills | Mar. 6, 1827 |
| Stanton, William | Centre Township, Pa. | Propelling machinery of all kinds | April 23, 1827 |
| Spedden, Robert | Talbot, Md. | Tide mill | Aug. 1, 1827 |
| Skinner, Elijah | Sandwich, N. H. | Water wheel, screw | Sept. 11, 1827 |
| Smith, J., and Wm. Sapp | Mount Vernon, O. | Grist mill | Sep. 9, 1828 |
| Steuart, James | Robertson co., Ten. | Flutter wheels, application of water to | Oct. 24, 1828 |
| Thompson, Thos. | New Jersey | Wind mills, regulating | Jan. 3, 1799 |
| Tyler, Benj. | New Hampshire | Mill, grist | Feb. 20, 1800 |
| Do | Claremont, N. H. | "Wry fly" for mill machinery | Mar. 19, 1804 |
| Tobey, Corns. | Hudson, N. Y. | Mill, bark | May 7, 1807 |
| Thayer, Solomon | Braintree, Mass. | Mill, pendulum | Oct. 9, 1811 |
| Tisdal, Ephm. | Windham, Ct. | Screen for cleaning grain, brushing | July 17, 1815 |
| Thomas, Benj. | Washington City, D.C. | Water wheel for mills | Mar. 20, 1817 |

LIST OF PATENTEES—MILLS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Thayer, Amos | Albany, N. Y. | Water wheel | July 7, 1817 |
| Do | Do | Water power, application to machinery | May 1, 1818 |
| Do | Do | Water wheel | May 1, 1818 |
| Tilford, John M. | Rutherford co., Ten. | Wheel, vertical horse | Aug. 7, 1820 |
| Tolson, Alex. | Georgetown, D. C. | Mill, pulverising bark | June 2, 1821 |
| Trask, E. and J. | Sangerfield, N. Y. | Bark mill | Nov. 22, 1821 |
| Thompson, Eb. | Manchester, N. Y. | Wheel, horizontal water | Mar. 24, 1825 |
| Thomas, Rob. S. | Rockingham, N. C. | Grist mill | June 4, 1827 |
| Turner, Wm. A. | Plymouth, N. C. | Do | June 27, 1827 |
| Taylor, Nathan | Urbana, N. Y. | Bush for mill stone | July 23, 1827 |
| Torrey, William | Westbrook, Me. | Mill, cast iron bark | Sept. 13, 1827 |
| Taylor, William L. | McMinn, Ten. | Grist mill | Jan. 28, 1828 |
| Torrey, Joseph | Ravenna, O. | Water wheel | Feb. 28, 1828 |
| Thompson, Orpheus | Jericho, Vt. | Do | Dec. 6, 1828 |
| Temple, Alex. | Brookfield, O. | Grist mill and spiral water wheel | Dec. 11, 1829 |
| Underwood, Wm. | Herkimer, N. Y. | Sawing timber without a stub short, carriage block | Sept. 6, 1810 |
| Valcourt, Lewis | Louisville, Ky. | Mill machinery | June 25, 1805 |
| Van Voorhis, Danl. | Long Island, N. Y. | Wheel, reversing wind and water, horizontal | Mar. 21, 1811 |
| Vansant, Abner | Jefferson co., Miss. | Water power by spiral wheels | Sept. 29, 1823 |
| Van Gasbeck, T. B., and B. Sands | Kingston, N. J. | Water and tide wheel | Dec. 24, 1824 |
| Warrell, Isaac | Pennsylvania | Bark, grinding and cutting | Mar. 17, 1802 |
| Weems, Richard | Annapolis, Md. | Wind mill | Sept. 20, 1804 |
| Willard, Simon, jr. | Hudson, N. Y. | Water wheel | Dec. 1, 1807 |
| Wells, John J. | Hartford, Ct. | Mill, paint | June 13, 1809 |

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| Wright, Abel | Canaan, N. Y. | Mill, saw | Mar. 7, 1810 |
| Wright, Russel H. | Boston, Mass. | Mills, wind | April 25, 1810 |
| Wheeler, Dexter | Bristol, Mass. | Tide wheel | Mar. 2, 1811 |
| Wolverton, Charles, & Ben. Ridgeway, jr. | Morris Villa, Pa. | Millstones, machine for dressing | May 24, 1811 |
| Walgemore, Samuel | Washington, D. C. | Elevator, conveyor, hopper boy | Feb. 22, 1812 |
| Whitcomb, Hiram | Cornwall, Ct. | Saw mill | Mar. 2, 1813 |
| Withers, Mich'l | Strasburg, Pa. | Gudgeon for mill | Aug. 24, 1813 |
| Worsley, Jos. | Berne, N. Y. | Gunpowder, granulating | Feb. 21, 1815 |
| Wood, James | Mount Pleasant, N. Y. | Water wheel, horizontal | June 19, 1815 |
| Widdifield, James | Philadelphia, Pa. | Water wheel, perpetual | April 21, 1817 |
| Wilson, Increase | New London, Ct. | Coffee mill | Mar. 6, 1818 |
| Waters, Asa | Milbury, Mass. | Water wheel, spring bucket | Dec. 22, 1818 |
| White, Thomas | Chester, S. C. | Saw mill | April 27, 1822 |
| Wheeler, Lee, & T. Powell | Coxsackie, N. Y. | Wheel, inclined horse and water | Dec. 6, 1822 |
| Wilson, John | Manlius, N. Y. | Mill for hulling, grinding, &c. | Aug. 27, 1824 |
| Wallace, James | Columbia, S. C. | Crank wheel motion | Sept. 25, 1824 |
| Wood, William, jr. | St. Clairsville, O. | Flour from becoming sour, preserving | Dec. 4, 1824 |
| Whitney, Eb. | Ithaca, N. Y. | Saw mills | Nov. 1, 1825 |
| Warren, Admiral | Saugerties, N. Y. | Horse mill | April 15, 1826 |
| Wilcox, Roswell | Franklin co., O. | Wheel, conical water | April 19, 1826 |
| Wortham, Charles | Warren co., N. C. | Gear screw for mills | April 24, 1826 |
| Webster, Jarvis | Philadelphia, Pa. | Grinding corn machine | July 31, 1826 |
| Wilson, John D. | Coridon, Ind. | Water wheel | June 7, 1827 |
| Warren, Admiral | Saugerties, N. Y. | Grist mill | Mar. 12, 1828 |
| Wickersham, Job, and T. Crozer | E. Fairfield, O. | Do | Aug. 29, 1829 |
| Wallace, Jos. | Hartford, Ky. | Tide or current mill | Sept. 11, 1829 |
| Western, Henry M. | New York | Tide power | Dec. 23, 1829 |

## LIST OF PATENTS—LEVER AND SCREW POWER.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Balance, perpetual | Russel H. Wright | Boston, Mass. | June 9, 1810 |
| Do Columbian | William Granger | Middlebury, Vt. | Sept. 8, 1810 |
| Do improvement on Dearborn's | Sol'n A. Rogers | Geneva, N. Y. | July 31, 1817 |
| Do | Henry Dearborn | Boston, Mass. | Mar. 24, 1819 |
| Do | David Rogers | Auburn, N. Y. | July 13, 1824 |
| Do improvement on Dearborn's | Samuel Blaisdell | Lancaster, O. | Oct. 10, 1827 |
| Ball stocks, printer's | John Babcock | New Haven, Ct. | Mar. 18, 1818 |
| Blocks used in stereotype printing | Matthew Smith | New York | Jan. 20, 1819 |
| Do do do do | Samuel G. Goodrich | Boston, Mass. | Oct. 11, 1828 |
| Bookbinder's press | John J. Wells | Hartford, Ct. | Mar. 23, 1824 |
| Brick press | Benjamin Porter | Salem, Mass. | May 18, 1814 |
| Do do | Benjamin Rolfe | During, N. H. | April 30, 1822 |
| Do do | Samuel Briggs | Salem, Mass. | Jan. 11, 1823 |
| Do do | Briggs R. Reed | Danvers, Mass. | May 29, 1823 |
| Do do | David Flagg, jr. | Gardiner, Me. | Dec. 17, 1824 |
| Do do compound | John Moore | Do | Aug. 24, 1825 |
| Do do | Mark Twitchell | Gray, Me. | Sept. 24, 1825 |
| Do do and tile | Samuel Lane | Hallowell, Me. | Sept. 30, 1825 |
| Do do wheel beating | Thomas Norcross & George Pollard | Do | Oct. 1, 1825 |
| Do do | Thomas Norcross | Do | Dec. 31, 1825 |
| Do do spiral moulding | James Parker | Gardiner, Me. | Mar. 28, 1826 |
| Do do | Julius Willard | Baltimore, Md. | May 2, 1826 |
| Do do | Ephraim Mayo | Hallowell, Me. | June 24, 1826 |
| Do do self feeding | John Winslow | Portland, Me. | Dec. 8, 1826 |

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| Do do | Alfred B. Crossman | Huntington, N. Y. | Feb. 9, 1827 |
| Do do and moulding | James Macdonald | New York | April 24, 1827 |
| Do do | John Howe | Alna, Me. | May 18, 1827 |
| Do and tile press | James Barker, M. D. | Gardiner, Me. | Nov. 29, 1828 |
| Do do | Ephraim Mayo | Hallowell, Me. | Dec. 9, 1828 |
| Do press | John Woodson | Rockbridge co., Va. | Sept. 10, 1829 |
| Buildings, removing with chimneys, and furniture, &c., therein | Simeon Brown | New York | July 31, 1827 |
| Cheese press | Jesse Arnold | Pawlings, N. Y. | Oct. 26, 1807 |
| Do and cider press | Eb. Benedict | New Marlboro', Mass. | Mar. 21, 1808 |
| Do press | Ephraim Warner | Waterbury, Ct. | April 12, 1808 |
| Do and cider press | Eb. Benedict | New Marlboro', Mass. | June 18, 1808 |
| Do press | Levi Martin | Granville, N. Y. | Dec. 19, 1808 |
| Do do | Hez. Dickerman | Barnstable, Mass. | Dec. 27, 1808 |
| Do do | Hazel Irwin | Boston, Mass. | Dec. 28, 1808 |
| Do do | Phineas Allen | Burlington, N. Y. | May 13, 1809 |
| Do do | Benj. Atwell | Do | July 18, 1809 |
| Do cider, oil, and tobacco press | Israel Nichols | Otsego, N. Y. | Oct. 12, 1809 |
| Do press | Eb. Raymond | Sherburn, N. Y. | Feb. 22, 1810 |
| Do do | Wm. W. Townsend | Addison co., Vt. | June 13, 1812 |
| Do do | Jos. Goulding | Worcester, Mass. | May 27, 1814 |
| Do do | Rand White | - - | Mar. 3, 1815 |
| Do do improvement on Townsend's | Jos. Bigelow | Montpelier, Vt. | Jan. 25, 1816 |
| Do do or packing | Alex'r Norton | Goshen, Ct. | May 6, 1820 |
| Do do | Jos. Pride | Potsdam, N. Y. | Dec. 9, 1824 |
| Do do | Lebbeus Caswell | Harrison, Me. | Dec. 9, 1825 |
| Do do cider, &c. | Do | Do | Dec. 18, 1826 |
| Do do | D. Hitchcock and C. Stone | New York | July 24, 1828 |
| Cotton, packing | John Cook | Fayetteville, N. C. | Oct. 12, 1821 |
| Do do | Webb Hart | Petersburg, Va. | May 4, 1825 |

LIST OF PATENTS—LEVER AND SCREW POWER—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Cotton, packing | Lewis Laysard | Halifax, N. C. | Sept. 28, 1825 |
| Do do | David Wilkinson | N. Providence, R. I. | Dec. 8, 1825 |
| Do do | Charles Williams | Petersburg, Va. | June 3, 1826 |
| Do do | James H. McClelland | Fairfield dist., S. C. | Dec. 28, 1826 |
| Do do | William C. Thomas | Richmond co., N. C. | Feb. 15, 1827 |
| Do do | Obed Stith | Laurenceville, Va. | Aug. 25, 1829 |
| Do press | Rd. V. W. Thorne & John Thorne | New York | Feb. 22, 1810 |
| Do and hay press | Moses Jaques & Henry Freeman | Woodbridge, N. J. | Oct. 2, 1811 |
| Do press | John Graham | China Grove, S. C. | June 17, 1820 |
| Do do | Franklin Shaler | Georgetown, O. | May 5, 1824 |
| Do do water power | Josiah Durden | Washington, Ala. | June 23, 1825 |
| Do do | Jac. N. Gordon | Plymouth, N. C. | Oct. 8, 1825 |
| Do do | Gideon Glenn | Lewisburg, N. C. | April 12, 1826 |
| Do do | J. Boltwright and J. Nathans | Richland, S. C. | Nov. 21, 1826 |
| Do and tobacco press | David Flagg & Chas. Peck | Gardiner, Me. | Dec. 30, 1826 |
| Do press | Philemon White | Chatham co., N. C. | Feb. 19, 1827 |
| Do do | Richard Jernigan | Waynesburgh, N. C. | May 15, 1827 |
| Do and hay press | Thomas D. Wilson | Coridon, Ind. | June 6, 1827 |
| Do press | William J. Cocke | Cabin Point, Va. | Feb. 4, 1828 |
| Do do horizontal rack and pinion | Zenos Bronson | Jasper co., Ga. | July 7, 1829 |
| Do do | Philenzo Payne | Claiborne co., Miss. | Aug. 10, 1829 |

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| Crane lever | Eb. Smith | Oneida co., N. Y. | Dec. 31, 1818 |
| Hay press, cider and oil | Nathan Wi[illegible]y | Augusta, Me. | Feb. 15, 1826 |
| Do hops, &c. | Jos. Wilso[illegible] | Otsego, N. Y. | Feb. 17, 1826 |
| Do double box | Ez. Waterhe[illegible] | Gardiner, Me. | Nov. 14, 1826 |
| Do cotton, &c. | David Flagg & Chas. Peck | Do | Dec. 30, 1826 |
| Do | Moses B. Bliss | Pittstown, Me. | Jan. 26, 1828 |
| Hydrostatic press, Bramah's | D. H. Mason and M. W. Baldwin | Philadelphia, Pa. | Dec. 2, 1829 |
| Hydro-mechanical press | John Beverly | | Dec. 26, 1803 |
| Inking apparatus, gravitating | William J. Stone | Washington, D. C. | Oct. 20, 1829 |
| Ink distributer | John Prince | New York | Dec. 3, 1829 |
| Jackscrew, wooden | Zenos Bunker | Guilford, N. C. | Feb. 3, 1819 |
| Do for raising wagons | William Hoyt | Brookville, Ind. | June 3, 1825 |
| Do for stowing goods in ships' holds | Thomas Evans | New York | Feb. 16, 1829 |
| Do for raising wagons | Hez. Salisbury | Springfield, Mass. | Mar. 8, 1828 |
| Leather press | Jona. Elliot | Sharon, Ct. | Jan. 18, 1810 |
| Letter press for proofs | Adam Ramage | Philadelphia, Pa. | May 19, 1823 |
| Lever windlass press | Thaddeus Williams, jr. | Do | Aug. 31, 1810 |
| Do purchase machine for working mills, propelling boats, &c. | Shubael Kimball | Rhinebeck, N. Y. | April 24, 1811 |
| Do progressive press | Jac. Perkins | Philadelphia, Pa. | Feb. 27, 1819 |
| Do bottom press, combined | Emanuel Venear | Halifax, N. C. | May 10, 1826 |
| Do gained power | Ed. G. Fitch | Blakely, Ala. | Oct. 5, 1827 |
| Do press | William Linn | Danville, Va. | April 25, 1828 |
| Do do compound | John Rogers | Maury co., Tenn. | Jan. 21, 1829 |
| Do do | Thatcher Blake | Turner, Me. | Feb. 20, 1821 |
| Do do spiral | Abm. O. Stansbury | New York | Mar. 21, 1821 |
| Do to raise bodies perpendicularly | Rd. Sealy | Do | July 1, 1822 |
| Do angle | James Barron | Norfolk, Va. | May 14, 1822 |
| Do power, crossing or collapsing | Wm. Scarbrough | Darien, Geo. | May 19, 1824 |

LIST OF PATENTS—LEVER AND SCREW POWER—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Lever, compound pendulum | Cyrus Berry | Poughkeepsie, N. Y. | Nov. 1, 1825 |
| Oil press | Josiah White | Massachusetts | Nov. 27, 1804 |
| Do pressing and straining | John Cunningham & S. S. Edmonston | New York | June 22, 1812 |
| Do press, improvement on Cunningham and Edmonston's | Sam'l S. Edmonston | Do | Sept. 1, 1813 |
| Do do | John Hallock | Egg Harbor, N. J. | Jan. 22, 1822 |
| Do do | Isaac Clowes | Hampton, Va. | Nov. 3, 1825 |
| Do do | Wm. H. Hoegg | Ashtabula, O. | May 20, 1826 |
| Packing press | Jac. Idler | Pennsylvania | Sept. 24, 1802 |
| Do machine | John Clark and E. Evans | - - | July 20, 1803 |
| Do and preparing bark for exportation | Jos. Lyon | Philadelphia, Pa. | July 1, 1811 |
| Do ground bark | Do | Do | Jan. 5, 1815 |
| Do machine | Tyre Jennings | Statesburg, S. C. | Mar. 3, 1829 |
| Pendulum power | Jedediah Tallman | Albany, N. Y. | Mar. 31, 1808 |
| Do machine | Jos. Lefever | Providence, R. I. | June 13, 1810 |
| Power and motion to machinery by weights | Peter Overt | New York | Dec. 18, 1813 |
| Do mechanical, mode of applying | Lorin Butts | Canterbury, Ct. | July 9, 1823 |
| Press frame, standing | Benjamin F. Brown | New York | Mar. 2, 1822 |
| Do improvement on Brown's | Robert Hoe | Do | April 22, 1828 |
| Press, increasing | Abm. Norton | Litchfield, Ct. | Feb. 11, 1812 |
| Do | Silas Hitchcock | Vernon, N. Y. | June 25, 1813 |
| Do by combination of powers | Thomas and John P. Bakewell | Pittsburg, Pa. | Jan. 14, 1829 |
| Do double loom spring | Rd. McOmber | Galway, N. Y. | Oct. 27, 1829 |

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| Pressing | Rob. P. Cunningham | Pomfret, Conn. | May 21, 1808 |
| Do and boring machine | Robert Ramsey | Hanover, N. H. | July 9, 1808 |
| Do straw or chip hats | Samuel Prince | New York | Aug. 31, 1808 |
| Do machine | Rd. V. W. Thorne & John Thorne | Do | Mar. 26, 1810 |
| Do clothes | Jos. Sage | Berlin, Ct. | April 14, 1810 |
| Do machine | Tim'y Puffer | Paris, N. Y. | May 23, 1815 |
| Do straw bonnets | Preston Whiting | Hopkinson, Mass. | June 11, 1819 |
| Do do do | Eleazer Smith | Walpole, Mass. | July 15, 1820 |
| Do hoisting and lowering machine | Philip Freeman | Amboy, N. J. | Feb. 20, 1822 |
| Do and raising weights | Thayer Cummings | Mayville, N. Y. | Feb. 19, 1829 |
| Printing books | Samuel Randall | Warren, R. I. | Jan. 4, 1816 |
| Do art of | William M. Dodge | New York | Mar. 6, 1823 |
| Do press | Apollos Kinsley | Connecticut | Nov. 16, 1796 |
| Do machine | John Dixey | New Jersey | Jan. 24, 1798 |
| Do press, circular | John P. Sawin and Thos. B. Wait | Boston, Mass. | Feb. 1, 1810 |
| Do do cylindrical | John P. Sawin and Thos. B. Wait | Roxbury, Mass. | Jan. 28, 1811 |
| Do do and ink distributer | William Elliot | New York | Feb. 17, 1813 |
| Do do | Zach. Mills | Hartford, Ct. | Feb. 26, 1813 |
| Do do copper and steel plate | Jac. Perkins | Newburyport, Mass. | June 29, 1813 |
| Do do | Daniel Pierson | Do | July 16, 1813 |
| Do do | Adam Ramage | Philadelphia, Pa. | May 28, 1818 |
| Do do | John J. Wells | Hartford, Ct. | Feb. 8, 1819 |
| Do by means of rollers | Burgess Allison and William Elliot | Washington, D. C. | Mar. 11, 1819 |
| Do press | Abm. O. Stansbury | New York | April 7, 1821 |
| Do do | Samuel Rust | Do | May 13, 1821 |
| Do do | Peter Smith | Do | April 6, 1822 |
| Do do | Daniel Neale | Philadelphia, Pa. | Nov. 15, 1825 |
| Do do power | Daniel Treadwell | Boston, Mass. | Mar. 2, 1826 |

## LIST OF PATENTS—LEVER AND SCREW POWER—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Printing press | David Phelps | Boston, Mass. | Sept. 15, 1826 |
| Do do | Samuel Fairlamb | New York | Nov. 4, 1826 |
| Do do hand | Samuel Couillard, jr. | Boston, Mass. | July 14, 1827 |
| Do do | Do | Do | Oct. 5, 1827 |
| Do do | J. C. Holbrook and E. H. Thomas | Brattleborough, Vt. | Feb. 7, 1828 |
| Do do | J. C. Holbrook and E. H. Thomas | Do | Feb. 7, 1828 |
| Do do roller | G. W. Cartwright | Mount Pleasant, N.Y. | April 29, 1828 |
| Do do copperplate | Cyrus Durand | New York | May 22, 1828 |
| Do do cylindrical | Chas. G. Williams | Do | May 29, 1828 |
| Do do roller | Joshua Laird | Pittsburg, Pa. | Aug. 16, 1828 |
| Do do Washington | Samuel Rust | New York | April 17, 1829 |
| Do do | John J. Wells | Hartford, Ct. | June 29, 1829 |
| Do do | Jonas Booth, sen., Jas. Booth, Thos. Booth, & Jonas Booth, jr. | New York | Sept. 1, 1829 |
| Roller cylinder, for distributing ink on copperplates | Andrew Maverick | Do | April 17, 1810 |
| Do for pressing leather | William Edwards | Northampton | Oct. 19, 1812 |
| Do for distributing ink on types | Hugh Maxwell | Lancaster, Pa. | Dec. 26, 1817 |
| Rolling press for manufacturing edged tools | Elisha Gordon | Philadelphia, Pa. | June 26, 1812 |
| Scales and beams, portable | Samuel Wallis | Massachusetts | Sept. 21, 1801 |
| Do beams and balances | John Edwards | New York | May 19, 1806 |
| Do do do | Aaron Pollock | Boston, Mass. | July 31, 1815 |
| Do do | John Edwards | New York | Nov. 19, 1816 |

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| Do do and balances | Sol. A. Rodgers | Philadelphia, Pa. | Feb. 19, 1825 |
| Do preponderating | Ez. Skinner | Camillus, N. Y. | Aug. 23, 1825 |
| Screw for propelling machinery | William H. Godfrey | Rochester, N. Y. | Nov. 27, 1826 |
| Do Archimedean | Jer. Black | Northumberland, Pa. | Jan. 17, 1818 |
| Do do | James Cooper | Augusta co., Va. | Dec. 14, 1819 |
| Do do | Perry Harris | Preble co., O. | Mar. 25, 1828 |
| Do press | Thos. Cohoon | Cazenovia, N. Y. | April 14, 1808 |
| Do do double | Elisha Winter | New Orleans | Sept. 4, 1810 |
| Do do wooden, for packing cotton | Jac. Pierson | Knoxville, Tenn. | Oct. 17, 1811 |
| Steam press, cylindrical | Ephm. Barker, & Jas. & Aaron Hall | Boston, Mass. | July 12, 1816 |
| Steelyards | Benj. Dearborn | Massachusetts | Feb. 14, 1799 |
| Do | Louis Dupre | South Carolina | May 12, 1802 |
| Do | John Edwards | New York | May 19, 1806 |
| Do | Barnabas Langdon | St. Alban's, Vt. | April 23, 1807 |
| Do and scales | Zina Phinney | Greene co., N. Y. | Jan. 6, 1814 |
| Do | Samuel Hills | Lincoln, Mass. | Dec. 27, 1815 |
| Do | Jac. Bartholomew | Middlebury, Vt. | Feb. 27, 1819 |
| Do lever power | Samuel Andrews | Bridgetown, Me. | Mar. 24, 1827 |
| Tobacco press, double lever | Caleb Johnston | New Glasgow, Va. | June 3, 1808 |
| Do | Edmd. Brown | Richmond, Va. | April 30, 1819 |
| Do | Simon Frazer | Nottingham, Md. | Mar. 23, 1820 |
| Do and iron case | Jehu Gallaway | Baltimore, Md. | April 2, 1824 |
| Types, printing, metallic and colored powder applied to | Geo. J. Newberry | New York | Feb. 1, 1821 |
| Typographer | William A. Burt | Detroit, Mich. | July 23, 1829 |
| Vice, perpetual lever | Calvin Wing | Gardiner, Me. | Mar. 2, 1826 |
| Weights, cast iron, adjusting | Alden Babcock | Boston, Mass. | Nov. 6, 1815 |
| Do machine for raising | Henry Nold | Bucks co., Pa. | Jan. 22, 1817 |
| Do engine for raising | Almoran Holmes | Boston, Mass. | Oct. 21, 1824 |
| Weighing machine | Eli Wadsworth | Hartford, Ct. | Sept. 7, 1820 |
| Wheel press | Her. Butts | Connecticut | Sept. 13, 1803 |
| Windlass power | William Pennell | Brunswick, Me. | June 29, 1829 |

# LIST OF PATENTEES—SCREW AND LEVER POWER.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Arnold, Jesse | Pawlings, N. Y. | Cheese press | Oct. 26, 1807 |
| Allen, Phineas | Burlington, N. Y. | Do | May 13, 1809 |
| Atwell, Benj. | Do | Do | July 18, 1809 |
| Andrews, Samuel | Bridgetown, Me. | Steelyards, lever power | |
| Allison, Burgess, and Wm. Elliott | Washington, D. C. | Printing press by means of rollers | Mar. 11, 1819 |
| Blaisdell, Samuel | Lancaster, Ohio | Balance, improvement on Dearborn's | Oct. 10, 1827 |
| Babcock, John | New Haven, Ct. | Ballstocks, printers' | Mar. 18, 1818 |
| Briggs, Samuel | Salem, Mass. | Brick press | Jan. 11, 1823 |
| Barker, James, M. D. | Gardner, Me. | Brick and tile press | Nov. 29, 1828 |
| Brown, Simeon | New York City | Buildings, removing with chimney, furniture, &c. | July 31, 1827 |
| Benedict, Eb. | New Marlboro', Mass. | Cheese and cider press | Mar. 21, 1808 |
| Do | Do | Do do | June 18, 1808 |
| Bigelow, Joseph | Montpelier, Vt. | Cheese press, improvement on Townsend's | Jan. 25, 1816 |
| Boltwright, J., and J. Nathans | Richland, S. C. | Cotton press | Nov. 21, 1826 |
| Bronson, Zenas | Jasper co., Ga. | Do horizontal rack and pinion | July 7, 1829 |
| Bliss, Moses B. | Pittstown, Me. | Hay press | Jan. 26, 1828 |
| Beverly, John | Philadelphia, Pa. | Hydro mechanical press | Dec. 26, 1803 |
| Bunker, Zenas | Guilford, N. C. | Jackscrew, wooden | Feb. 3, 1819 |
| Blake, Thatcher | Turner, Me. | Lever press | Feb. 20, 1821 |
| Barron, James | Norfolk, Va. | Do angles | May 14, 1822 |
| Berry, Cyrus | Poughkeepsie, N. Y. | Do compound pendulum | Nov. 1, 1825 |
| Butts, Lorin | Canterbury, Ct. | Power, mechanical, mode of applying | July 9, 1823 |
| Brown, Benj. F. | New York | Press frame, standing | Mar. 2, 1822 |

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| Bakewell, Ths. & J. P. | Pittsburgh, Pa. | Do by combination of powers | Jan. 14, 1829 |
| Burgess, Allison, and Wm. Elliot | Washington, D. C. | Printing press by means of rollers | Mar. 11, 1819 |
| Booth, Jonas, sr., Jas. Booth, Ths. Booth, and Jonas Booth, jr. | New York | Do | Sept. 1, 1819 |
| Black, Jeremiah | Northumberland, Pa. | Screw, Archimedean | Jan. 17, 1818 |
| Barker, Eph., and Jas. and Aaron Hall | Boston, Mass. | Steam press, cylindrical | July 12, 1816 |
| Bartholomew, Jac. | Middlebury, Vt. | Steelyards | Feb. 27, 1819 |
| Brown, Edmund | Richmond, Va. | Tobacco press, double lever | April 30, 1819 |
| Burt, Wm. A. | Detroit, Mich. T. | Typographer | July 23, 1829 |
| Babcock, Alden | Boston, Mass. | Weights, cast iron, adjusting | Nov. 6, 1815 |
| Butts, Her. | Connecticut | Wheel press | Sept. 13, 1803 |
| Crossman, Alfred B. | Huntington, N. Y. | Brick press | Feb. 9, 1827 |
| Caswell, Libbeus | Harrison, Me. | Cheese press | Dec. 9, 1825 |
| Do | Do | Do cider, &c. | Dec. 18, 1826 |
| Cook, John | Fayetteville, N. C. | Cotton packing | Oct. 12, 1821 |
| Cocke, Wm. J. | Cabin Point, Va. | Do press | Feb. 4, 1828 |
| Cunningham, John, and Saml. S. Edmonston | New York | Oil, pressing and straining | June 22, 1812 |
| Clowes, Isaac | Hampton, Va. | Oil press | Nov. 3, 1825 |
| Clark, John, and E. Evans | - - | Packing machine | July 20, 1803 |
| Cunningham, Rob. P. | Pomfret, Ct. | Pressing | May 21, 1808 |
| Cummings, Thayer | Mayville, N. Y. | Do and raising weights | Feb. 19, 1829 |
| Couillard, Saml., jr. | Boston, Mass. | Printing press, hand | July 14, 1827 |
| Do | Do | Do | Oct. 5, 1827 |
| Cartwright, Geo. W. | Mount Pleasant, N. Y. | Do roller | April 29, 1828 |
| Cooper, James | Augusta co., Va. | Screw, Archimedean | Dec. 14, 1819 |
| Cohoon, Thomas | Cazenovia, N. Y. | Screw press | April 14, 1808 |

LIST OF PATENTEES—SCREW AND LEVER POWER—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Dearborn, Henry | Boston, Mass. | Balance | Mar. 24, 1819 |
| Dickerman, Hez. | Barnstable, Mass. | Cheese press | Dec. 19, 1808 |
| Durden, Josiah | Washington, Ala. | Cotton press, water power | June 23, 1825 |
| Dodge, Wm. M. | New York | Printing, art of | Mar. 6, 1823 |
| Dixey, John | New Jersey | Do machine | Jan. 24, 1798 |
| Durand, Cyrus | New York | Do press, copperplate | May 22, 1828 |
| Dearborn, Benj. | Massachusetts | Steelyards | Feb. 14, 1799 |
| Dupre, Louis | South Carolina | Do | May 12, 1802 |
| Evans, Thomas | New York | Jackscrew for stowing goods in ships' holds | Feb. 16, 1829 |
| Elliot, Jonathan | Sharon, Ct. | Leather press | Jan. 18, 1810 |
| Edmonston, Saml. S. | Do | Oil press, improvement on Cunningham & Edmonston's | Sept. 1, 1813 |
| Evans, E., and John Clark | Pennsylvania | Packing machine | July 20, 1803 |
| Elliot, William | New York | Printing press and ink distributer | Feb. 17, 1813 |
| Elliot, William, and Allison, Burgess | Washington, D. C. | Do by means of rollers | Mar. 11, 1819 |
| Edwards, Wm. | Northampton | Roller for pressing leather | Oct. 19, 1812 |
| Edwards, John | New York | Scalebeams and balances | May 19, 1806 |
| Do | Do | Do do | Nov. 19, 1816 |
| Do | Do | Steelyards | May 19, 1806 |
| Flagg, David, jr. | Gardiner, Me. | Brick press | Dec. 17, 1824 |
| Freeman, Henry | Woodbridge, N. J. | Cotton press | Oct. 2, 1811 |
| Flagg, David, & Charles Peck | Gardiner, Me. | Do and tobacco press | Dec. 30, 1826 |
| Do | Do | Hay press, cotton, &c. | Dec. 30, 1826 |

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|---|---|---|---|
| Fitch, Edward G. | Blakely, Ala. | Lever gained power | Oct. 5, 1827 |
| Freeman, Philip | Amboy, N. J. | Pressing and hoisting and lowering machine | Feb. 20, 1822 |
| Fairlamb, Samuel | New York | Printing press | Nov. 4, 1826 |
| Fraser, Simon | Nottingham, Md. | Tobacco press | Mar. 23, 1820 |
| Granger, William | Middlebury, Vt. | Balance, Columbian | Sept. 8, 1810 |
| Goodrich, Samuel G. | Boston, Mass. | Blocks used in stereotype printing | Oct. 11, 1828 |
| Goulding, James | Worcester, Mass. | Cheese press | May 27, 1814 |
| Graham, John | China Grove, S. C. | Cotton press | June 17, 1820 |
| Gordon, Jac. N. | Plymouth, N. C. | Do do | Oct. 8, 1825 |
| Glenn, Gideon | Lewisburg, N. C. | Do do | April 12, 1826 |
| Gordon, Elisha | Philadelphia, Pa. | Rolling press for manufacturing edged tools | June 26, 1812 |
| Godfrey, William H. | Rochester, N. Y. | Screw for propelling machinery | Nov. 27, 1826 |
| Galloway, Jehu | Baltimore, Md. | Tobacco press and iron case | April 2, 1824 |
| Howe, John | Alna, Me. | Brickpress | May 18, 1827 |
| Hitchcock, D., and C. Stone | New York | Cheese press | July 24, 1828 |
| Hart, Webb | Petersburg, Va | Cotton packing | May 4, 1825 |
| Hoyt, William | Brookville, Ind. | Jackscrew for raising wagons | June 3, 1825 |
| Hallock, John | Egg Harbor, N. J. | Oil press | Jan. 22, 1822 |
| Hoegg, William H. | Ashtabula, O. | Do | May 20, 1826 |
| Hoe, Robert | New York | Press frame, improvement on Brown's | April 22, 1828 |
| Hitchcock, Silas | Vernon, N. Y. | Do increasing | June 25, 1813 |
| Holbrook, J. C., & E. H. Thomas | Brattleborough, Vt. | Printing press | Feb. 7, 1828 |
| Do | Do | Do do | Feb. 7, 1828 |
| Harriss, Perry | Preble co., O. | Screw, Archimedean | Mar. 25, 1828 |
| Hills, Samuel | Lincoln, Mass. | Steelyards | Dec. 27, 1815 |
| Holmes, Almoran | Boston, Mass. | Weights, engine for raising | Oct. 21, 1824 |
| Irwin, Hazel | Do | Cheese press | Dec. 28, 1808 |
| Jaques, Moses, & Henry Freeman | Woodbridge, N. J. | Cotton and hay press | Oct. 2, 1811 |

## LIST OF PATENTEES—LEVER AND SCREW POWER—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Jernigan, Richard | Waynesburg, N. C. | Cotton press | May 15, 1827 |
| Idler, Jacob | Pennsylvania | Packing press | Sept. 24, 1802 |
| Jennings, Tyre | Statesburg, S. C. | Do machine | Mar. 3, 1829 |
| Johnson Caleb | New Glasgow, Va. | Tobacco press, double screw | June 3, 1808 |
| Kimball, Shubael | Rhinebeck, N. Y. | Lever purchase, machine for working mills, propelling boats, &c. | April 24, 1811 |
| Kinsey, Apollos | Connecticut | Printing press | Nov. 16, 1796 |
| Lane, Samuel | Hallowell, Me. | Brick press and tile | Sept. 30, 1825 |
| Laysard, Lewis | Halifax, N. C. | Cotton packing | Sept. 28, 1825 |
| Linn, William | Danville, Va. | Lever press | April 25, 1828 |
| Lyon, Joseph | Philadelphia, Pa. | Packing and preparing bark for exportation | July 1, 1811 |
| Do | Do | Do ground bark | Jan. 5, 1815 |
| Lefever, Joseph | Providence, R. I. | Pendulum machine | June 13, 1810 |
| Laird, Joshua | Pittsburg, Pa. | Printing press roller | Aug. 16, 1828 |
| Langdon, Barnabas | St. Alban's, Vt. | Steelyards | April 23, 1807 |
| Moore, John | Gardiner, Me. | Brick press, compound | Aug. 24, 1825 |
| Mayo, Ephraim | Hallowell, Me. | Do | June 24, 1826 |
| Macdonald, James | New York | Do and moulding | April 24, 1827 |
| Mayo, Ephraim | Hallowell, Me. | Do and tile | Dec. 9, 1828 |
| Martin, Levi | Granville, N. Y. | Cheese press | Dec. 19, 1828 |
| McClelland, James H. | Fairfield dist. S. C. | Cotton packing | Dec. 28, 1826 |
| Mason, D. H., & M. W. Baldwin | Philadelphia, Pa. | Hydrostatic press, Bramah's | Dec. 2, 1829 |
| McOmber, Richard | Galway, N. Y. | Press, double loom spring | Oct. 27, 1829 |
| Mills, Zach. | Hartford, Ct. | Printing press | Feb. 26, 1813 |

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|---|---|---|---|
| Maverick, Andrew | New York | Roller, cylinder, for distributing ink on copperplates | April 17, 1810 |
| Maxwell, Hugh | Lancaster, Pa. | Do for distributing ink on types | Dec. 26, 1817 |
| Norcross, Thomas, & George Pollard | Hallowell, Me. | Brick press, wheel beating | Oct. 1, 1825 |
| Norcross, Thomas | Do | Do | Dec. 31, 1825 |
| Nichols, William | Otsego, N. Y. | Cheese, cider, oil, and tobacco press | Oct. 12, 1809 |
| Norton, Alexander | Goshen, Ct. | Do press, or packing | May 6, 1820 |
| Norton, Abraham | Litchfield, Ct. | Press, increasing | Feb. 11, 1812 |
| Neale, Daniel | Philadelphia, Pa. | Printing press | Nov. 15, 1825 |
| Nold, Henry | Bucks co., Pa. | Weights, machine for raising | Jan. 22, 1817 |
| Newberry, George J. | New York | Type, printing, metallic and colored powder applied to | Feb. 1, 1821 |
| Overt, Peter | Do | Power and motion to machinery by weights | Dec. 18, 1813 |
| Porter, Benj. | Salem, Mass. | Brick press | May 18, 1814 |
| Parker, James | Gardiner, Me. | Do spiral moulding | Mar. 28, 1826 |
| Pride, Joseph | Potsdam, N. Y. | Cheese press | Dec. 9, 1824 |
| Payne, Philenzo | Claiborne co., Miss. | Cotton press | Aug. 10, 1829 |
| Prince, John | New York | Ink distributer | Dec. 3, 1829 |
| Perkins, Jacob | Philadelphia, Pa. | Lever progressive press | Feb. 27, 1819 |
| Prince, Samuel | New York | Pressing straw or chip hats | Aug. 31, 1808 |
| Puffer, Timothy | Paris, N. Y. | Do machine | May 23, 1815 |
| Perkins, Jacob | Newburyport, Mass. | Printing press, copper and steel plate | June 29, 1813 |
| Pierson, Daniel | Do | Do | July 16, 1813 |
| Phelps, David | Boston, Mass. | Do | Sept. 15, 1826 |
| Pollock, Aaron | Do | Scales, and beams, and balances | July 31, 1815 |
| Pierson, Jacob | Knoxville, Tenn. | Screw press, wooden, for packing cotton | Oct. 17, 1811 |
| Phinney, Zina | Greene co., N. Y. | Steelyards and scales | Jan. 6, 1814 |
| Pennel, William | Brunswick, Me. | Windlass power | June 29, 1829 |
| Rogers, Solomon A. | Greene, N. Y. | Balance, improvement on Dearborn's | July 31, 1817 |
| Rogers, David | Auburn, N. Y. | Do | July 13, 1824 |
| Rolfe, Benj. | Deering, N. H. | Brick press | April 30, 1822 |
| Reed, Briggs R. | Danvers, Mass. | Do | May 29, 1823 |

## LIST OF PATENTEES—LEVER AND SCREW POWER—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Raymond, Eb. | Sherburn, N. Y. | Cheese press | Feb. 22, 1810 |
| Ramage, Adam | Philadelphia, Pa. | Letter press for proofs | May 19, 1823 |
| Rogers, John | Maury co., Tenn. | Lever press, compound | Jan. 21, 1829 |
| Ramsay, Robert | Hanover, N. H. | Pressing and boring machine | July 9, 1808 |
| Randall, Saml. | Warren, R. I. | Printing books | Jan. 4, 1816 |
| Ramage, Adam | Philadelphia, Pa. | Do press | May 28, 1818 |
| Rust, Samuel | New York | Do do | May 13, 1821 |
| Do | Do | Do do Washington | April 17, 1829 |
| Rogers, Solomon A. | Philadelphia, Pa. | Scales, beams, and balances | Feb. 19, 1825 |
| Smith, Matthew | New York | Blocks used in stereotype printing | Jan. 20, 1819 |
| Stith, Obed | Laurensville, Va. | Cotton packing | Aug. 25, 1829 |
| Shaler, Franklin | Georgetown, O. | Cotton press | May 5, 1824 |
| Smith, Eb. | Oneida co., N. Y. | Crane lever | Dec. 31, 1818 |
| Stone, Wm. J. | Washington, D. C. | Inking apparatus, gravitating | Oct. 20, 1829 |
| Salisbury, Hez. | Springfield, Mass. | Jackscrew for raising wagons | Mar. 8, 1828 |
| Stansbury, Abm. O. | New York | Lever press, spiral | Mar. 21, 1821 |
| Sealy, Richard | Do | Do to raise bodies perpendicularly | July 1, 1822 |
| Scarborough, Wm. | Darien, Georgia | Do power, crossing or collapsing | May 19, 1824 |
| Sage, Joseph | Berlin, Ct. | Pressing clothes | April 14, 1810 |
| Smith, Eleazer | Walpole, Mass. | Do straw bonnets | July 15, 1820 |
| Sawin, John P., and Thomas B. Wait | Boston, Mass. | Printing press, circular | Feb. 1, 1810 |
| Do | Roxbury, Mass. | Do cylindrical | Jan. 28, 1811 |
| Stansbury, Abm. O. | New York | Do | April 7, 1821 |
| Smith, Peter | Do | Do | April 6, 1822 |
| Skinner, Ezra | Camillus, N. Y. | Scales, preponderating | |

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|---|---|---|---|
| Skinner, Ezra | Camillus, N. Y. | Scales, preponderating | Aug. 23, 1825 |
| Twitchell, Mark | Gray, Me. | Brick press | Sept. 24, 1825 |
| Townsend, Wm. W. | Addison co., Vt. | Cheese press | June 13, 1812 |
| Thomas, Wm. | Richmond co., N. C. | Cotton packing | Feb. 15, 1827 |
| Thorne, Rd., and John Thorne | New York | Cotton press | Feb. 22, 1810 |
| Tallman, Jedediah | Albany, N. Y. | Pendulum power | Mar. 31, 1808 |
| Torne, Rd., V. W. & John Thorne | New York | Pressing machine | Mar. 26, 1810 |
| Treadwell, Daniel | Boston, Mass. | Printing press, power | Mar. 2, 1826 |
| Venear, Emanuel | Halifax, N. C. | Lever bottom press, combined | May 10, 1826 |
| Wright, Russel H. | Boston, Mass. | Balance, perpetual | June 9, 1810 |
| Wells, John J. | Hartford, Ct. | Bookbinder's press | Mar. 23, 1824 |
| Willard, Julius | Baltimore, Md. | Brick press | May 2, 1826 |
| Winslow, John | Portland, Me. | Do self-feeding | Dec. 8, 1826 |
| Woodson, John | Rockbridge co., Va. | Do | Sept. 10, 1829 |
| Warner, Ephm. | Waterbury, Ct. | Cheese press | April 12, 1808 |
| White, Rand | - - - | Do | Mar. 3, 1815 |
| Wilkinson, David | N. Providence, R. I. | Cotton packing | Dec. 8, 1825 |
| Williams, Charles | Petersburg, Va. | Do | June 3, 1826 |
| White, Philemon | Chatham co., N. C. | Cotton press | Feb. 19, 1827 |
| Wilson, Thomas D. | Coridon, Ind. | Do and hay press | June 6, 1827 |
| Whitney, Nathan | Augusta, Me. | Hay press, cider and oil | Feb. 15, 1826 |
| Wilson, Joseph | Otsego, N. Y. | Do hops, &c. | Feb. 17, 1826 |
| Waterhouse, E. | Gardiner, Me. | Do double box | Nov. 14, 1826 |
| Williams, Thad., jr. | Philadelphia, Pa. | Lever windlass press | Aug. 31, 1810 |
| White, Josiah | Massachusetts | Oil press | Nov. 27, 1804 |
| Whiting, Preston | Hopkinson, Mass. | Pressing straw bonnets | June 11, 1819 |
| Wells, John J. | Hartford, Ct. | Printing press | Feb. 8, 1819 |
| Do | Do | Do | June 29, 1829 |
| Charles G. Williams | New York | Do cylindrical | May 29, 1828 |

## LIST OF PATENTEES—LEVER AND SCREW POWER—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Wallis, Samuel - | Massachusetts - | Scales and beams, portable - - - - | Sept. 21, 1801 |
| Winter, Elisha - | New Orleans - | Screw press, double - - - - - | Sept. 4, 1810 |
| Wing, Calvin - | Gardiner, Me. - | Vice, perpetual lever - - - - - | Mar. 2, 1826 |
| Wadsworth, Eli - | Hartford, Ct. - | Weighing machine - - - - - | Sept. 7, 1820 |

## LIST OF PATENTS—ARMS.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Barrel, gun, &c., plating - - - - | John Fowler - | Lancaster, Pa. - | Jan. 4, 1810 |
| Do do turning - - - - - | Seth Youngs - | Hartford, Ct. - | May 1, 1810 |
| Do do - - - - - - | Asa Waters - - | Milbury, Mass. - | Oct. 25, 1817 |
| Do do rifle or plain - - - - | Artemas Wheeler - | Concord, Mass. - | Feb. 19, 1819 |
| Bayonet sockets - - - - - | Andrew Wilson - | New York - - | June 11, 1814 |
| Cannon pointing - - - - - | Jer. Black - - | Northumberland, Pa. | Jan. 17, 1818 |
| Do method of discharging - - - - | Hy. Whitcomb - | Adams, N. Y. - | Oct. 25, 1826 |
| Cannonade, screw box, elevating, and cap - - | Enoch Hidden - | New York - - | April 26, 1826 |
| Carriage, gun - - - - - - | Samuel Hawkins - | Do - - | Feb. 19, 1806 |
| Do for field artillery - - - - | David Cobb - - | Boston, Mass. - | April 25, 1808 |
| Do pivot gun - - - - - | Luke M. Leighton - | Portsmouth, N. H. - | Nov. 29, 1814 |
| Cartouch box - - - - - | John Mix - - | New York - - | June 3, 1813 |

Fire arms - - - - - - William Thom

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|---|---|---|---|
| Fire arms | William Thornton & John H. Hall | Washington, D. C. | May 21, 1811 |
| Do do | Albert Holcomb | Litchfield, N. Y. | Oct. 31, 1822 |
| Do do | Fordyce Ruggles | Hardwick, Me. | Nov. 24, 1826 |
| Do do | Joshua Shaw | Philadelphia, Pa. | May 7, 1829 |
| Do do discharging | Robert Eastman | Brunswick, Me. | Dec. 7, 1829 |
| Gun to discharge seven or more times | Artemas Wheeler | Concord, Mass. | June 10, 1818 |
| Do construction of | Alexander Boyden | Newark, N. J. | Jan. 10, 1824 |
| Do revolving, four barrel, and percussion lock | Hy. Rogers | Middletown, O. | May 7, 1829 |
| Do percussion, eight barrels | Samuel L. Faries | Do | Oct. 10, 1829 |
| Do elevating heavy | William H. Bell | Fortress Monroe, Va. | Dec. 8, 1829 |
| Gunnery, repeating | Jos. C. Chambers | West Middletown, Pa. | Mar. 23, 1813 |
| Knapsacks, military | John Sherbette | Washington, D. C. | Oct. 7, 1808 |
| Lock, gun | Edw'd West | Kentucky | July 6, 1802 |
| Do do | Alex. A. Colville | Little River, Me. | April 28, 1820 |
| Do rifle | Jos. Medberry and S. Kellogg | Rochester, N. Y. | June 16, 1826 |
| Do gun | Simon Cromwell | Edgecomb, Me. | Feb. 3, 1827 |
| Do percussion | William A. Hart | Fredonia, N. Y. | Feb. 20, 1827 |
| Do do | Marvel Davis | Mayville, N. Y. | July 10, 1827 |
| Do do magazine | James B. Lowry | Do | Sept. 11, 1827 |
| Do do lever | John Ambler, jr. | S. New Berlin, N. Y. | Oct. 16, 1827 |
| Do do | Jos. Shattuck | Jefferson co., O. | Nov. 10, 1827 |
| Do do | Oren Moses | Malone, N. Y. | May 3, 1828 |
| Do do | Jedediah Caswell | Manlius, N. Y. | May 8, 1828 |
| Do do | Jos. Lawrence | New Berlin, N. Y. | May 24, 1828 |
| Do do | Nath'l Saltonstall | New London, Ct. | May 29, 1828 |
| Do do water proof, self-priming | Samuel L. Faries | Middletown, O. | May 29, 1828 |
| Do do cannon | Joshua Shaw | Philadelphia, Pa. | Oct. 24, 1828 |
| Do gun | Ephm. Gilbert | Rochester, N. Y | April 3, 1829 |
| Muskets containing a number of charges | J. Miller | Brighton, N. Y. | June 11, 1829 |

LIST OF PATENTS—ARMS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Percussion guns | Joshua Shaw | Philadelphia, Pa. | June 19, 1822 |
| Do do and pistols | Jos. Finch | New York | April 12, 1823 |
| Do do | James Tyrer | Petersburg, Pa. | June 3, 1825 |
| Pontoons | Henry Carbery and William Tatham | Washington, D. C. | July 19, 1816 |
| Primers, percussion, for cannon | William H. Bell | Fortress Monroe, Va. | Dec. 8, 1829 |
| Quadrant, gunners' | Charles Hammond | Concord, Mass. | May 6, 1807 |
| Rifles | Elisha Strong & Cotton Kellogg | New Hartford, Ct. | Aug. 31, 1810 |
| Do | Fred. Oswan | Harper's Ferry, Va. | Feb. 25, 1815 |
| Do | Obed Stith | Quarlestown, Va. | Mar. 16, 1819 |
| Do repeating | Isaiah Jennings | New York | Sept. 22, 1821 |
| Do double shooting | Cyrus Mosher & Noble White | Hamilton, N. Y. | May 5, 1828 |
| Shot, chain and cleaver, discharging | Israel Hatch | Massachusetts | May 24, 1801 |
| Sponges for artillery | John Gether | Philadelphia, Pa. | May 16, 1826 |

## LIST OF PATENTEES—ARMS.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Ambler, John, jr. | S. New Berlin, N. Y. | Lock, percussion lever | Oct. 16, 1827 |
| Black, Jer. | Northumberland, Pa. | Cannon, pointing | Jan. 17, 1818 |
| Boyden, Alex. | Newark, N. J. | Gun, construction of | Jan. 10, 1824 |
| Bell, William H. | Fortress Monroe, Va. | Do elevating heavy | Dec. 8, 1829 |
| Do | Do | Primers, percussion, for cannon | Dec. 8, 1829 |
| Cobb, David | Boston, Mass. | Carriage for field artillery | April 25, 1808 |
| Chambers, Jos. C. | West Middletown, Pa. | Gunnery, repeating | Mar. 23, 1813 |
| Colville, Alexander A. | Little River, Me. | Lock, gun | April 28, 1820 |
| Cromwell, Simon | Edgecombe, Me. | Do do | Feb. 3, 1827 |
| Caswell, Jedediah | Manlius, N. Y. | Do percussion | May 8, 1828 |
| Carberry, Henry, and William Tatham | Washington City, D.C. | Pontoons | July 19, 1816 |
| Davis, Marvel | Mayville, N. Y. | Lock, percussion | July 10, 1827 |
| Eastman, Robert | Brunswick, Me. | Fire arms, discharging | Dec. 7, 1829 |
| Fowler, John | Lancaster, Pa. | Barrels, gun, &c., plating | Jan. 4, 1810 |
| Faries, Samuel L. | Middletown, O. | Gun, percussion, 8 barrels | Oct. 10, 1829 |
| Do | Do | Lock, percussion, water proof, self-priming | May 29, 1828 |
| Finch, Jos. | New York | Percussion guns and pistols | April 12, 1823 |
| Gilbert, Ephraim | Rochester | Lock, gun | April 3, 1829 |
| Gether, John | Philadelphia, Pa. | Sponges for artillery | May 16, 1826 |
| Hidden, Enoch | New York | Cannonade screw box, elevating and cap | April 26, 1826 |
| Hawkins, Samuel | Do | Carriage, gun | Feb. 19, 1806 |
| Holcomb, Albert | Litchfield, N. Y. | Fire arms | Oct. 31, 1822 |
| Hart, William A. | Fredonia, N. Y. | Lock, percussion | Feb. 20, 1827 |
| Hammond, Charles | Concord, Mass. | Quadrant, gunner's | May 6, 1807 |

## LIST OF PATENTEES—ARMS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Hatch, Israel | Massachusetts | Shot, chain and cleaver, discharging | May 24, 1801 |
| Jennings, Isaiah | New York | Rifles, repeating | Sept. 22, 1821 |
| Laighton, Luke M. | Portsmouth, N. H. | Carriage, pivot gun | Nov. 29, 1814 |
| Lowry, James B. | Mayville, N. Y. | Lock, percussion magazine | Sept. 11, 1827 |
| Lawrence, Jos. | New Berlin, N. Y. | Do do | May 24, 1828 |
| Mix, John | New York | Cartouch box | June 3, 1813 |
| Medbury, J., & S. Kellogg | Rochester, N. Y. | Lock, rifle | June 16, 1826 |
| Moses, Oren | Malone, N. Y. | Do percussion | May 3, 1828 |
| Miller, J. | Brighton, N. Y. | Muskets containing a number of charges | June 11, 1829 |
| Mosher, C., & N. White | Hamilton, N. Y. | Rifles, double shooting | May 5, 1828 |
| Oswan, Frederick | Harper's Ferry, Va. | Rifles | Feb. 25, 1815 |
| Ruggles, Fordyce | Hardwick, Me. | Fire arms | Nov. 24, 1826 |
| Rogers, Henry | Middletown, O. | Gun, revolving, 4 barrel, and percussion lock | May 7, 1829 |
| Shaw, Joshua | Philadelphia, Pa. | Fire arms | May 7, 1829 |
| Sherbette, John | Washington City | Knapsacks, military | Oct. 7, 1808 |
| Shattuck, Jos. | Jefferson co., O. | Lock, percussion | Nov. 10, 1827 |
| Saltonstall, Nath'l | New London, Ct. | Do | May 29, 1828 |
| Shaw, Joshua | Philadelphia, Pa. | Do do cannon | Oct. 24, 1828 |
| Do | Do | Percussion guns | June 19, 1822 |
| Strong, Elisha, & Cotton Kellogg | New Hartford, Ct. | Rifles | Aug. 31, 1810 |
| Stith, Obed | Quarlestown, Va. | Do | Mar. 16, 1819 |
| Thornton, William, & John H. Hall | Washington city, D.C. | Fire arms | May 21, 1811 |
| Tyrer, James | Petersburg, Va. | Percussion guns | June 3, 1825 |

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|---|---|---|---|
| Waters, Asa | Millbury, Mass. | Barrels, gun | Oct. 25, 1817 |
| Wheeler, Artemas | Concord, Mass. | Do gun, rifle or plain | Feb. 19, 1819 |
| Wilson, Andrew | New York | Bayonet sockets | June 11, 1814 |
| Whitcomb, Henry | Adams, N. Y. | Cannon, method of discharging | Oct. 25, 1826 |
| Wheeler, Artemas | Concord, Mass. | Gun to discharge seven or more times | June 10, 1818 |
| West, Edward | Kentucky | Lock, gun | July 6, 1802 |
| Young, Seth | Hartford, Ct. | Barrels, gun, turning | May 1, 1810 |

## LIST OF PATENTS—SURGERY.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Balance, dormant | James K. Casey | New York | Jan. 21, 1829 |
| Bleeding with leeches | John Kunitz | Philadelphia, Pa. | May 7, 1805 |
| Blind horses, curing | Jos. Sater | Huntsville, N. C. | Aug. 14, 1821 |
| Cancers, method of drawing and curing | Jac. Ware | Philadelphia, Pa. | Sept. 20, 1815 |
| Do do curing | James Andrus | Hillsborough, N. H. | July 30, 1816 |
| Cataract, removing by tubes and canular points | Frs. B. Shaw | Philadelphia, Pa. | July 27, 1815 |
| Do instrument for operating on the | Thomas R. Williams | Do | June 14, 1826 |
| Catheter, metallic, flexible | Israel Balch & Moses Carter | Salisbury, Me. | Oct 26, 1815 |
| Extractor, parallel, moving teeth | Elijah Bryan | New York | July 13, 1829 |
| Lancet, spring | Jer. Dewey | Chelsea, Vt. | April 2, 1824 |
| Do do retreating | Thomas R. Williams | Newport, R. I. | July 16, 1824 |
| Lythontripter | Isaiah Lukens | Philadelphia, Pa. | Dec. 30, 1826 |
| Milk, drawing from breasts, machine called "hacmagalactiphorus" | D. Houghtaling & A. Maneely | Watervleit, N. Y. | June 11, 1829 |

## LIST OF PATENTS—SURGERY—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Pessaries | Luke Parker | New York | Sept. 12, 1822 |
| Points, metallic | Elisha Perkins | Connecticut | Feb. 19, 1796 |
| Spine of the back, stays for | Luden McKechnie | Pennsylvania | July 1, 1796 |
| Do inflected, apparatus | James K. Casey | New York | June 23, 1828 |
| Splints for fractured limbs | D. S. C. H. Smith | Sutton, Mass. | July 7, 1829 |
| Teeth, extracting | Thomas Bruff | Maryland | July 1, 1797 |
| Do setting natural and artificial | William R. Eagleson | Baltimore, Md. | Oct. 4, 1817 |
| Do composition for preserving | Levi S. Parmly | New York | June 17, 1820 |
| Do artificial | Charles M. Graham | Do | Mar. 9, 1822 |
| Do preventing their decay | H. H. Hayden | Baltimore, Md. | Feb. 11, 1824 |
| Do apparatus to keep free from saliva while stopping | Charles Newton | New York | Sept. 27, 1825 |
| Do engrafting | Elijah A. Bigelow | Brandon, Vt. | Mar. 8, 1827 |
| Do metallic | Anthony Planton | Philadelphia, Pa. | April 5, 1828 |
| Tourniquet | Jos. Strong | Pennsylvania | Jan. 29, 1801 |
| Truss for ruptures | Cyrus Stone | Massachusetts | May 6, 1800 |
| Do bolted | John Beath | Boston, Mass. | Feb. 7, 1807 |
| Do spiral | Philip A. De Savignac | New York | July 13, 1809 |
| Do | Jos. Cerneau | Do | Aug. 17, 1809 |
| Do double spring, angular | Theo. Hart | Do | Aug. 30, 1811 |
| Do | Abel Blanchard | Pembroke, N. H. | May 17, 1817 |
| Do | Amos G. Hull | Utica, N. Y. | July 17, 1817 |
| Do | Benjamin Strattan | Philadelphia, Pa. | June 23, 1819 |
| Do improvement on Hull's | Bela Farr | Norwich, N. Y. | Mar. 9, 1822 |
| Do | Amos G. Hull | New York | Feb. 27, 1823 |
| Do spiral spring | Jos. Far | Manlius, N. Y. | Feb. 7, 1824 |

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| Do | Amos G. Hull | New York | Aug. 19, 1824 |
| Do spiral spring, conical | Jesse R. Hovey | Sangerfield, N. Y. | Mar. 31, 1825 |
| Do improvement on Farr's and Hull's | Eli M. Gibbs | Norwich, N. Y | May 28, 1825 |
| Do | Christian Stockman | Albany, N. Y. | Nov. 7, 1825 |
| Do | John Blagge | Portland, Me. | Dec. 15, 1825 |
| Do spiral spring | Bela Farr | Norwich, N. Y. | Mar. 21, 1826 |
| Do (his former patents cancelled) | Amos G. Hull | New York | Oct. 28, 1829 |
| Vaccinator, spring | William Haslett | Baltimore, Md. | April 17, 1817 |
| Vaccination | James Smith | Do | July 10, 1822 |

## LIST OF PATENTEES—SURGERY.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Andrus, James | Hillsborough, N. H. | Cancers, method of curing | July 30, 1816 |
| Balch, Israel, & Moses Carter | Salisbury, Mass. | Catheter, metallic, flexible | Oct. 26, 1815 |
| Bryan, Elijah | New York | Extractor, parallel moving teeth | July 13, 1829 |
| Bruff, Thomas | Maryland | Teeth, extracting | July 1, 1797 |
| Bigelow, Elijah A. | Brandon, Vt. | Do engrafting | Mar. 8, 1827 |
| Beath, John | Boston, Mass. | Truss, bolted | Feb. 7, 1807 |
| Blanchard, Abel | Pembroke, N. H. | Do | May 17, 1817 |
| Blagge, John | Portland, Me. | Do | Dec. 15, 1825 |
| Casey, James K. | New York | Balance, dormant | Jan. 21, 1829 |
| Do | Do | Spine, inflected, apparatus | June 23, 1828 |
| Cerneau, Jos. | Do | Truss | Aug. 17, 1809 |
| Dewey, Jer. | Chelsea, Vt. | Lancet, spring | April 2, 1824 |
| De Savignac, Philip A. | New York | Truss, spiral | July 13, 1809 |

LIST OF PATENTEES—SURGERY—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Eagleson, William R. | Baltimore, Md. | Teeth, setting natural and artificial | Oct. 4, 1817 |
| Farr, Bela | Norwich, N. Y. | Truss, improvement on Hull's | Mar. 9, 1822 |
| Far, Jos. | Manlius, N. Y. | Do spiral spring | Feb. 7, 1824 |
| Farr, Bela | Norwich, N. Y. | Do do do | Mar. 21, 1826 |
| Graham, Charles M. | New York | Teeth, artificial | Mar. 9, 1823 |
| Gibbs, Eli M. | Norwich, N. Y. | Truss, improvement on Farr's and Hull's | May 28, 1825 |
| Houghtaling, D., and A. Maneely | Watervleit, N. Y. | Milk from breasts, drawing machine, called "hacmagalactiphorus" | June 11, 1829 |
| Hayden, H. H. | Baltimore, Md. | Teeth, preventing their decay | Feb. 11, 1824 |
| Hart, Theo. | New York | Truss, double spring angular | Aug. 30, 1811 |
| Hull, Amos G. | Utica, N. Y. | Do | July 17, 1817 |
| Do | Do | Do | Feb. 27, 1823 |
| Do | Do | Do | Aug. 19, 1824 |
| Hovey, Jesse R. | Sangerfield, N. Y. | Do spiral spring, conical | Mar. 31, 1825 |
| Hull, Amos G. | New York | Do (his former patents cancelled) | Oct. 28, 1829 |
| Haslett, William | Baltimore, Md. | Vaccinator, spring | April 17, 1817 |
| Kunitz, John | Philadelphia, Pa. | Bleeding with leeches | May 7, 1805 |
| Lukens, Isaiah | Philadelphia, Pa. | Lythrontripter | Dec. 30, 1826 |
| McKechnie, Luden | Pennsylvania | Spine of the back, stays for | July 1, 1796 |
| Newton, Charles | New York | Teeth, apparatus to keep them free from saliva while stopping | Sept. 27, 1825 |
| Parker, Luke | New York | Pessaries | Sept. 12, 1822 |
| Perkins, Elisha | Connecticut | Points, metallic | Feb. 19, 1796 |
| Parmly, Levi S. | New York | Teeth, composition for preserving | June 17, 1820 |

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|---|---|---|---|
| Planton, Anthony | Philadelphia, Pa. | Do metallic | April 5, 1828 |
| Sater, Jos. | Huntsville, N. C. | Blind horses, curing | Aug. 14, 1821 |
| Shaw, Frs. B. | Philadelphia, Pa. | Cataract, removing by tubes and canular points | July 27, 1815 |
| Smith, D. S. C. H. | Sutton, Mass. | Splints for fractured limbs | July 7, 1829 |
| Strong, Jos. | Pennsylvania | Tourniquet | Jan. 29, 1801 |
| Stone, Cyrus | Massachusetts | Truss for ruptures | May 6, 1800 |
| Stratton, Benjamin | Philadelphia, Pa. | Do | June 23, 1819 |
| Stockman, Christ'n | Albany, N. Y. | Do | Nov. 7, 1825 |
| Smith, James | Baltimore, Md. | Vaccination | July 10, 1822 |
| Ware, Jac. | Philadelphia, Pa. | Cancers, method of drawing and curing | Sept. 20, 1515 |
| Williams, Thomas R. | Do | Cataract, instrument for operating on the | June 14, 1826 |
| Do | Newport, R. I. | Lancet, spring, retreating | July 16, 1824 |

## LIST OF PATENTS—MATHEMATICAL INSTRUMENTS.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Anglet, for taking and laying down angles | Ben. Dearborn | Boston, Mass. | April 29, 1808 |
| Blanks, manufacturing, for checks, drafts, &c. | James Atwater | New Haven, Ct. | Jan. 21, 1829 |
| Do do do do | James Atwater, & N. & S. S. Jocelyn | Do | June 11, 1829 |
| Do do do do | James Atwater | Do | Aug. 18, 1829 |
| Compass, mariner's or surveyor's | William Russell | New Bedford, Mass. | Dec. 1, 1809 |
| Do universal | Samuel Dew | Romney, Va. | April 13, 1822 |
| Dividing machine | Rufus Tyler | Philadelphia, Pa. | Oct. 9, 1828 |
| Electrical apparatus | Thos. Brown | Albany, N. Y. | Dec. 20, 1816 |
| Engine for dividing scales | Lemuel Hedge | Windsor, Vt. | June 20, 1827 |

LIST OF PATENTS—MATHEMATICAL INSTRUMENTS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Genealogy, chronology, represented by lines | Hy. Bostwick | New York | Aug. 2, 1826 |
| Globes, artificial | William B. Annin | Boston, Mass. | May 4, 1826 |
| Interest tables, geometrical | Gersham Cobb | Do | Sept. 7, 1808 |
| Do do do | Do | Do | April 24, 1809 |
| Do do circular | Jos. Jelleff | Butternuts, N. Y. | Sept. 8, 1810 |
| Do do improvement on Jelleff's | Gilbert D. Lowe | Hampfield, Pa. | Aug. 12, 1815 |
| Longimeter | Abel Bayrd | South Reading, Pa. | July 16, 1828 |
| Longitude, finding | James Henry | Maysville, Ky. | Sept. 13, 1820 |
| Lotteries | Jos. Vanneni | Washington, D. C. | Dec. 4, 1815 |
| Do scheme | Do | Philadelphia, Pa. | Oct. 18, 1823 |
| Do | J. I. Cohen | Baltimore, Md. | Mar. 3, 1825 |
| Do constructing and drawing | Moses Davis | Cumberland, Md. | May 9, 1825 |
| Do schemes | John W. Togno | Philadelphia, Pa. | May 16, 1823 |
| Do | William Seger | Bergen, N. J. | May 25, 1825 |
| Do by arithmetical chances | Eliphalet Nott | Union College, N. Y. | Sept. 9, 1825 |
| Do drawing | J. Howard and A. Hayward | Providence, R. I. | Nov. 8, 1825 |
| Do do | Francis W. Dana | Boston, Mass. | Dec. 28, 1825 |
| Do scheme | Edward Grattan | Providence, R. I. | May 16, 1826 |
| Do drawing | William C. Conine | Baltimore, Md. | Nov. 14, 1826 |
| Do do | John C. Rives | Washington, D. C. | Dec. 22, 1826 |
| Do do | William E. Spalding | Brooklyn, Ct. | Feb. 15, 1828 |
| Do | J. I. Cohen | Baltimore, Md. | Aug. 28, 1828 |
| Do drawing | D. Malcolm | Orleans, La. | July 30, 1829 |
| Magnetic cylinder | Samuel Browning | Franconia, N. H. | Oct. 13, 1810 |

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|---|---|---|---|
| Do do | Do | Do | Nov. 25, 1814 |
| Mapping land instrument | James Geneale | Dumfries, Va. | Aug. 8, 1820 |
| Measuring rod for packages | Daniel Stansbury | Laurel Hill | Oct. 26, 1818 |
| Do heights and distances | Benjamin Wilmer | Baltimore, Md. | Aug. 20, 1819 |
| Odometer for ascertaining distance | James Clarke | Powhatan co., Va. | Nov. 30, 1818 |
| Pentagraph and parallel ruler | John J. Hawkins | New Jersey | May 17, 1803 |
| Perambulator | Anthony Gilford | West Point, Mass. | Oct. 27, 1829 |
| Planetarium, Heliogeastrum | Theo. Newell | Poultney, Vt. | April 12, 1820 |
| Pneumatic machine | David Lloyd | Cambria co., Pa. | Jan. 7, 1816 |
| Protractor, universal | Ennion Williams | Philadelphia, Pa. | Jan. 19, 1810 |
| Do perspective | Bass, Otis | Do | Mar. 14, 1815 |
| Do rectangular | Nath'l Goodwin | Hartford, Ct. | Dec. 24, 1823 |
| Quadrant, trigonometrical | James Templeman | South Carolina | Aug. 17, 1802 |
| Do astronomical | Matthew C. Graves | Massachusetts | Sept. 3, 1802 |
| Do | Josiah Arnold | Caledonia, Vt. | April 14, 1810 |
| Sector, sliding | Gab. H. Thompson | Boston, Mass. | Dec. 4, 1820 |
| Scale, pendulum | Moses L. Morse | Cambridge, Mass. | Feb. 21, 1810 |
| Do for measuring | Josiah J. Hendryx | Bennington, Vt. | May 29, 1822 |
| Trigonometer | Wm. Chamberlain | - | June 28, 1809 |
| Do | William Bowles | Griswold, Ct. | July 17, 1824 |
| Writing plates, geometrical | Samuel Ellis | New Bedford, Mass. | Nov. 29, 1809 |

## LIST OF PATENTEES—MATHEMATICAL INSTRUMENTS.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Arnold, Josiah | Caledonia, Vt. | Improvement in the quadrant | April 14, 1810 |
| Annin, William B. | Boston, Mass. | Globes, artificial | May 4, 1826 |
| Attwater, James | New Haven, Ct. | Blanks, manufacturing, for checks, drafts, &c. | Jan. 21, 1829 |
| Attwater, James & N. & S. S. Jocelyn | Do | Do do do do | June 11, 1829 |
| Attwater, James | Do | Do do do do | Aug. 18, 1829 |
| Browning, Sam. | Franconia, N. H. | Cylinder, magnetic | Oct. 13, 1810 |
| Do | Do | Do do | Nov. 25, 1814 |
| Brown, Thomas | Albany, N. Y. | Electrical apparatus | Dec. 20, 1816 |
| Brown, James | Newark, N. J. | Key, grammatical | Mar. 3, 1817 |
| Bowles, William | Griswold, Ct. | Trigonometer | July 17, 1824 |
| Bostwick, Hy. | New York | Genealogy, chronology, &c., represented by lines | Aug. 2, 1826 |
| Bayrd, Abel | South Reading, Pa. | Longimeter | July 16, 1828 |
| Cobb, Gershom | Boston, Mass. | Geometrical interest table | Sept. 7, 1808 |
| Do | Do | Do do | April 24, 1809 |
| Chamberlin, Wm. | - | Trigonometer | June 28, 1809 |
| Clark, James | Powhatan co., Va. | Odometer, for ascertaining distance | Nov. 30, 1818 |
| Cohen, J. I. | Baltimore, Md. | Lotteries | Mar. 3, 1825 |
| Conine, Wm. C. | Do | Do drawing | Nov. 14, 1826 |
| Cohen, J. I. | Do | Do | Aug. 28, 1828 |
| Dearborn, Benj. | Boston, Mass. | Anglet, for taking and laying down angles | April 29, 1808 |
| Deneale, James | Dumfries, Va. | Instrument for mapping land | Aug. 3, 1820 |
| Dew, Sam. | Romney, Va. | Compass, universal | April 13, 1822 |
| Davis, Moses | Cumberland, Me. | Lotteries, constructing and drawing | May 9, 1825 |
| Dana, Frs. W. | Boston, Mass. | Lottery, drawing | Dec. 28, 1825 |
| Ellis, Samuel | New Bedford, Mass. | Geometrical writing | Nov. 29, 1809 |

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|---|---|---|---|
| Graves, Matthew C. | Massachusetts | Quadrant, astronomical | Sept. 3, 1802 |
| Goodwin, Nath'l | Hartford, Ct. | Protractor, rectangular | Dec. 24, 1823 |
| Grattan, Edw. | Providence, R. I. | Lottery schemes | May 16, 1826 |
| Gifford, Anthony | West Point, Mass. | Perambulator | Oct. 27, 1829 |
| Hawkins, John J. | New Jersey | Ruler, pentagraph and parallel | May 17, 1803 |
| Henry, James | Maysville, Ky. | Longitude, finding | Sept. 13, 1820 |
| Hendryx, Josiah J. | Benmington, Vt. | Scale for measuring | May 29, 1822 |
| Howard, J., & A. Hayward | Providence, R. I. | Lottery, drawing | Nov. 8, 1825 |
| Hedge, Lemuel | Windsor, Vt. | Scales, engine for dividing | June 20, 1827 |
| Jelleff, Jos. | Butternuts, N. Y. | Table, circular interest | Sept. 8, 1810 |
| Lowe, Gilbert D. | Hampfield, Pa. | Table, improvement in Jelleff's interest | Aug. 12, 1815 |
| Lloyd, David | Cambria co., Pa. | Pneumatic machine | Jan. 7, 1816 |
| Morse, Moses L. | Cambridge, Mass. | Pendulum scale | Feb. 21, 1810 |
| Malcolm, D. | Orleans, La. | Lotteries, drawing | July 30, 1829 |
| Newell, Theo. | Poultney, Vt. | Heliogeastrum plenatarium | April 12, 1820 |
| Nott, Eliphalet | Union College, N. Y. | Lotteries by arithmetical chances | Sept. 9, 1820 |
| Otis, Bass | Philadelphia | Protractor, perspective | Mar. 14, 1815 |
| Russel, William | New Bedford, Mass. | Compass, mariner's or surveyor's | Dec. 1, 1809 |
| Rives, John C. | Washington, D. C. | Lotteries, drawing | Dec. 22, 1826 |
| Stansbury, Daniel | Laurel Hill | Rod for measuring packages | Oct. 26, 1818 |
| Seger, William | Bergen, N. J. | Lottery schemes | May 25, 1825 |
| Spalding, William E. | Brooklyn, Ct. | Do drawing | Feb. 15, 1828 |
| Templeton, James | South Carolina | Quadrant, trigonometrical | Aug. 17, 1802 |
| Thompson, Gab. H. | Boston, Mass. | Sector, sliding | Dec. 4, 1820 |
| Togno, John W. | Philadelphia | Lottery schemes | May 16, 1825 |
| Tyler, Rufus | Do | Dividing machine | Oct. 9, 1828 |
| Williams, Ennison | Do | Protractor, universal | Jan. 19, 1810 |
| Wilmer, Benjamin | Baltimore, Md. | Instrument for measuring heights and distances | Aug. 20, 1819 |
| Vanneni, Joseph | Washington, D. C. | Lotteries | Dec. 4, 1815 |
| Do | Philadelphia, Pa. | Lottery schemes | Oct. 18, 1823 |

## LIST OF PATENTS—HOROLOGY.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Alarm bell | Benj. E. Freymouth | Philadelphia, Pa. | Dec. 22, 1814 |
| Balance spring, catch lever | Levi Kendall | New York | May 8, 1809 |
| Chronometer | Saml. S. Edmonston | New York | April 3, 1819 |
| Clocks | Eli Terry | Connecticut | Nov. 17, 1797 |
| Do balance pendulum | James Goodwin and Richard Gaines | Baltimore, Md. | Jan. 22, 1806 |
| Do time and striking part | Ira Ives | Bristol, Ct. | June 24, 1809 |
| Do astronomical | Thomas Newell | Sheffield, Mass. | July 7, 1809 |
| Do over balance pendulum | Saml. Goodwin | Baltimore, Md. | July 7, 1809 |
| Do striking part of | Leml. J. Kilborn | Pennsylvania | Oct. 12, 1809 |
| Do time part of wooden | James Harrison | Boston, Mass. | Aug. 22, 1814 |
| Do 30 hours, wooden | Eli Terry | Litchfield, Ct. | June 12, 1816 |
| Do improvement on Willard's | Lemuel Curtis | Concord, Mass. | July 12, 1816 |
| Do | Simon Willard | Boston, Mass. | Dec. 8, 1819 |
| Do | James Henry | Maysville, Ky. | Sept. 13, 1820 |
| Do | Joshua Burritt and Wm. P. Burdick | Ithaca, N. Y. | Oct. 25, 1821 |
| Do machinery | Wm. Dean | Pleasant Valley, N. Y. | Dec. 31, 1821 |
| Do cases | John Ives | Bristol, Vt. | Mar. 21, 1822 |
| Do wooden wheel | Eli Terry | Plymouth, Ct. | May 26, 1822 |
| Do astronomical | Henry Miller | E. Hanover, Pa. | May 5, 1825 |
| Do wooden wheel, 30 hours | Eli Terry | Plymouth, Ct. | May 18, 1825 |
| Do do do | Do | Do | Sept. 9, 1825 |
| Do do do | Do | Do | Mar. 4, 1826 |
| Do do do | Do | Do | Mar. 4, 1826 |

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| Do do do | Do | Do | July 5, 1826 |
| Do | Harrison G. Dyar | New York | Nov. 6, 1827 |
| Do | Aaron D. Crane | Caldwell, N. J. | Mar. 18, 1829 |
| Do self-moving power for winding up | Richard Ward | Waterbury, Ct. | Nov. 5, 1829 |
| Marine time keeper | Isaac Gill | Charleston, S. C. | Jan. 15, 1810 |
| Pendulum, double | Robert Leslie | Philadelphia, Pa. | Jan. 30, 1793 |
| Do for clocks | Do | Do | Jan. 30, 1793 |
| Do double | Do | Do | Jan. 30, 1793 |
| Do machine | Charles S. Allen | Newark, N. J. | Oct. 13, 1815 |
| Pinions | Ira Ives | Bristol, Ct. | Feb. 24, 1812 |
| Do | Pharris Bronson<br>Joel Curtis | Waterbury, Ct.<br>Cairo, N. Y. | Aug. 22, 1814 |
| Plates, mode of boring | Joel Curtis | Cairo, N. Y. | Aug. 22, 1814 |
| Time piece, silent moving | Simeon Joceline | Connecticut | Mar. 8, 1800 |
| Do | Simon Willard | Massachusetts | Feb. 8, 1802 |
| Do | David F. Lanny | New York | Mar. 21, 1803 |
| Wheels, casting | Leml. J. Kilborn | Pennsylvania | Oct. 13, 1809 |
| Do for wooden clocks | Asa Hopkins | Litchfield, Ct. | Aug. 22, 1814 |
| Do teeth and pinions | Joel Curtis & Dimon Bradley | Cairo, N. Y. | Aug. 22, 1814 |
| Wire, pointing for clocks | Anson Sperry | Waterbury, Ct. | Aug. 22, 1814 |

## LIST OF PATENTEES—HOROLOGY.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Allen, Charles S. | Newark, N. J. | Pendulum machine | Oct. 13, 1815 |
| Burritt, Joshua, and Wm. P. Burdick | Ithaca, N. Y. | Clocks | Oct. 25, 1821 |
| Bronson, Pharris, and Joel Curtis | Waterbury, Ct. / Cairo, N. Y. | Pinions | Aug. 22, 1814 |
| Curtis, Lemuel | Concord, Mass. | Clock, improvement on Willard's | July 12, 1816 |
| Crane, Aaron D. | Caldwell, N. J. | Do wooden wheel, 30 hour | Mar. 18, 1829 |
| Curtis, Joel | Cairo, N. Y. | Plates, mode of boring | Aug. 22, 1814 |
| Curtis, Joel, & Dimon Bradley | Cairo, N. Y. | Wheels, teeth, and pinions | Aug. 22, 1814 |
| Dean, Wm. | Pleasant Valley, N. Y. | Clock machinery | Dec. 21, 1821 |
| Dyar, Harrison G. | New York | Clock, wooden wheel, 30 hour | Nov. 6, 1827 |
| Edmonston, Saml. S. | Do | Chronometer | April 3, 1819 |
| Freymouth, Benj. E. | Philadelphia, Pa. | Alarm bell | Dec. 22, 1814 |
| Goodwin, James, and Richard Gaines | Baltimore, Md. | Clocks, balance pendulum | Jan. 22, 1806 |
| Goodwin, Saml. | Do | Do over balance pendulum | July 7, 1809 |
| Gill, Isaac | Charleston, S. C. | Marine time keeper | Jan. 15, 1810 |
| Harrison, James | Boston, Mass. | Clock, time part of wooden | Aug. 22, 1814 |
| Henry, James | Maysville, Ky. | Clocks | Sept. 13, 1820 |
| Hopkins, Asa | Litchfield, Ct. | Wheels for wooden clocks | Aug. 22, 1814 |
| Ives, Ira | Bristol, Ct. | Clocks, time and striking part | June 24, 1809 |
| Ives, John | Do | Clock cases | Mar. 21, 1822 |
| Do | Do | Pinions | Feb. 24, 1812 |
| Joceline, Simeon | Connecticut | Time piece, silent moving | Mar. 8, 1800 |

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| Kendall, Levi | New York | Balance spring, catch lever | May 8, 1809 |
| Kilborn, Leml. J. | Pennsylvania | Clocks, striking part of | Oct. 12, 1809 |
| Do | Do | Wheels, casting | Oct. 13, 1809 |
| Leslie, Robert | Philadelphia, Pa. | Pendulum, double | Jan. 30, 1793 |
| Do | Do | Do for clocks | Jan. 30, 1793 |
| Do | Do | Do double | Jan. 30, 1793 |
| Lanny, David F. | New York | Time piece, silent moving | Mar. 21, 1803 |
| Miller, Henry | E. Hanover, Pa. | Clocks, astronomical | May 5, 1825 |
| Newell, Thomas | Sheffield co., Mass. | Do do | July 7, 1809 |
| Sperry, Anson | Waterbury, Ct. | Wire, pointing for clocks | Aug. 22, 1814 |
| Perry, Eli | Connecticut | Clocks | Nov. 17, 1797 |
| Do | Litchfield, Ct. | Clock, 30 hours, wooden | June 12, 1816 |
| Do | Plymouth, Ct. | Do wooden wheel | May 26, 1822 |
| Do | Do | Do wooden wheel, 30 hour | May 18, 1825 |
| Do | Do | Do do do | Sept. 19, 1825 |
| Do | Do | Do do do | Mar. 4, 1826 |
| Do | Do | Do do do | Mar. 4, 1826 |
| Do | Do | Do do do | July 5, 1826 |
| Willard, Simon | Boston, Mass. | Clocks | Dec. 8, 1819 |
| Ward, Richard | Waterbury, Ct. | Do self-moving power for winding up | Nov. 5, 1829 |
| Willard, Simeon | Massachusetts | Time piece, silent moving | Feb. 8, 1802 |

## LIST OF PATENTS—CHEMICAL COMPOSITIONS.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Acid, sulphuric | Benjamin Bell | Boston, Mass. | Nov. 7, 1811 |
| Do vegetable, preparation of | Nathaniel S. Allison & Benjamin Kugler | Philadelphia, Pa. | June 5, 1812 |
| Alkali, extracting from marine salt and kelp | John Mazro | Massachusetts | Jan. 6, 1797 |
| Alum, making from lignite | Genet Troost | Philadelphia, Pa. | Mar. 3, 1817 |
| Anti-bilious grand depurative gurider | John J. Giraud | Baltimore, Md. | Sept. 9, 1817 |
| Asiatic lenitive for pain | Ez. Audler | New York | Oct. 26, 1818 |
| Balloon | Moses McFarland | Massachusetts | Oct. 28, 1799 |
| Barilla, manufacturing from tobacco stems, &c. | George Easterly | Richmond, Va. | Feb. 5, 1810 |
| Bark, extracting | Samuel Downing | New York | June 12, 1801 |
| Do do essence of | Do | New Jersey | April 19, 1802 |
| Do do from dying | Thomas Bedwell and William Mitchell | Pennsylvania | June 7, 1803 |
| Do preparation | Thomas Benger | Do | Jan. 25, 1804 |
| Do quercitron, preparing | Nathan Harper | Frankfort, Pa. | Oct. 30, 1810 |
| Do extract of | William G. Fessenden | Walpole, N. H. | Oct. 20, 1812 |
| Do quercitron, preparation | James Elliott | Philadelphia, Pa. | Aug. 20, 1822 |
| Bitters, jaundice | Jesse Wheaton | Massachusetts | Jan. 17, 1801 |
| Camphor, refining | Henry Mead | New Haven, Ct. | Feb. 12, 1810 |
| Do do | Job Green | Charlestown, Mass. | April 27, 1812 |
| Ceiling, fire proof | Benjamin J. Harris | Richmond, Va. | May 17, 1814 |
| Cement for roofs of houses | David Stodder | Massachusetts | Nov. 16, 1804 |
| Do do do | Charles Morneweck | Baltimore, Md. | Mar. 13, 1809 |
| Do for walls, ceilings, and floors | A. Scott | Newburg, N. C. | Aug. 15, 1814 |
| Do to be used under water | John Grant | Saratoga, N. Y. | Nov. 11, 1817 |

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|---|---|---|---|
| Do water proof | Canvas White | Whitestown, N. Y. | Feb. 1, 1820 |
| Do do do | Do | Do | Feb. 17, 1821 |
| Do do do | David M. Randolph | Richmond, Va. | Sept. 26, 1821 |
| Do fire proof | Henry Heinen | Mifflin towns'p, Pa. | May 10, 1824 |
| Do threefold | Ezra Godfrey | New York | Sept. 9, 1825 |
| Do water | Simeon Guilford | Lebanon, Pa. | Jan. 11, 1826 |
| Do do | Do | Washington, D.C. | Jan. 16, 1827 |
| Do for roofs or walls of buildings | Charles Clinton | New York | July 13, 1827 |
| Do imitation of marble | Benjamin Trembly | Do | Nov. 13, 1827 |
| Do fire and water proof | James Coburn | Middlesex | Sept. 3, 1828 |
| Do water proof, paint or varnish | John T. Howe | New York | Jan. 31, 1829 |
| Charcoal, manufacturing | A. Kurtz | Philadelphia, Pa. | June 28, 1816 |
| Crystallizing tin | George F. Valentine | Albany, N. Y. | Aug. 26, 1818 |
| Color, yellow | Thomas Bedwell | Pennsylvania | April 20, 1796 |
| Do for painting | Lawrence Allurne | Do | Feb. 24, 1797 |
| Do substitute for indigo | Samuel De Riemer | Poughkeepsie, N. Y. | May 15, 1809 |
| Do permanent for calicoes | Aug. Boulia | Philadelphia, Pa. | Dec. 24, 1814 |
| Do preparation of with lime | Jona. Nichols, jr. | Broadalbin, N. Y. | April 12, 1815 |
| Do making for painting | Frs. Guy | - - - | Dec. 30, 1803 |
| Coloring, preparation of green | Baron A. De Carren-leffez | New York | Oct. 12, 1807 |
| Composition for flooring houses | Rd. Robotham | Vermont | April 12, 1794 |
| Do for the preservation of wood and brick | Cyrus Constant | New York | Feb. 1, 1800 |
| Do to render woollen cloth water proof | James P. Wightman | Boston, Mass. | Oct. 21, 1806 |
| Do for roofs and floors of houses | Louis De Niroth | Baltimore, Md. | Feb. 3, 1807 |
| Do for the cure of cancers | Elias Willard | Albany, N. Y. | Oct. 8, 1810 |
| Do for mending china | Harvey Bascom | Weston, Mass. | June 10, 1811 |
| Do for taking off the glaze of mill stones | John Noble | Derby, Ct. | June 10, 1813 |
| Do for rendering leather impervious to water | Jos. Board | New York | Nov. 4, 1813 |
| Do for black lead pencils | Charles Osgood | Salem, Mass. | Feb. 26, 1814 |

LIST OF PATENTS—CHEMICAL COMPOSITIONS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Composition to be used instead of jostic - - - | Frederick Eckstein & James McIlhenny | Philadelphia, Pa. - | Oct. 12, 1814 |
| Do for softening cast or crude iron - - | Abel Scott & Alonzo Selden - - | Winchester, N. H. - | Nov. 8, 1814 |
| Do for axletrees - - - - | Aaron Nash - | - - - | Dec. 17, 1814 |
| Do for covering houses - - - | Abijah Rogers - | Hudson, N. Y. - | Mar. 14, 1817 |
| Do for copy, writing, and drawing books - | Richard Wall - | Philadelphia, Pa. - | April 28, 1817 |
| Do for pencils - - - - | Jos. Ellis - - | Dedham, Mass. - | April 26, 1819 |
| Do for razor straps - - - - | David Ritter - | New Haven, Ct. - | Mar. 9, 1822 |
| Do pharmaceutic - - - - | John C. Bay - | Mount Pleasant, O. - | Jan. 26, 1825 |
| Do marble, granite, &c. - - - | Louis Matthey - | Brooklyn, N. Y. - | Mar. 7, 1827 |
| Do to prevent scurvy - - - | James U. Armour - | Fredericktown, Md. | Sept. 28, 1827 |
| Do for roofs, water and fire proof - - | David Greer - | Pittsburg, Pa. - | April 25, 1828 |
| Do used in the fusion of metals or ores - | Henry B. Chew & E. V. Freeman - | Baltimore, Md. - | April 7, 1829 |
| Do for teeth - - - - - | Thomas White - | St. Clairsville, O. - | July 29, 1829 |
| Consumption and other complaints, curing - - | Charity S. Long - | Philadelphia, Pa. - | May 27, 1812 |
| Copper, acetate of - - - - - | Stephen Dempsey - | New York - - | Feb. 4, 1813 |
| Copperas, making - - - - - | Isaac Tyson - | Baltimore, Md. - | Feb. 15, 1827 |
| Cordial, anti-bilious - - - - - | Simon Lozarus - | Virginia - - | Dec. 21, 1802 |
| Do bilious - - - - - | Samuel Chamberlain | Massachusetts - | Dec. 31, 1804 |
| Cough drops - - - - - | Daniel E. Smith - | Cornwall, Ct. - | June 30, 1828 |
| Cream of tartar, carbonated liquid - - - | Sophia Usher - | New York - - | Sept. 11, 1819 |
| Dye, blue - - - - - - | John Pearson - | Connecticut - - | Mar. 3, 1800 |
| Dysentery, dyspepsia, &c. - - - - | Trueman Powell - | Burlington, Vt. - | Feb. 2, 1828 |

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|---|---|---|---|
| Earth, concentration of the volatile parts of calcareous | John Fowler | Pennsylvania | Nov. 16, 1797 |
| Elixir, vegetable | Samuel Cooley | Bolton, Ct. | Nov. 12, 1803 |
| Do restorative | Harvey Frank | Northampton, Mass. | Jan. 6, 1812 |
| Do of life | Jules Rucco | Baltimore, Md. | Mar. 29, 1817 |
| Febrifuge | Asa Johnson | Northumberland, Pa. | Jan. 11, 1812 |
| Galvanism for salivation | William Phoebus | New York | June 9, 1807 |
| Gas, carburated hydrogen | Benjamin Kugler | Philadelphia, Pa. | April 23, 1816 |
| Do combustible | William Garnett | New York | Dec. 27, 1822 |
| Glue, fish, or icthyocolla | Daniel Waldron | Do | Mar. 4, 1812 |
| Do manufacturing | John H. Mark | Philadelphia, Pa. | Oct. 3, 1822 |
| Gold and silver, separating from earth | Wm. H. Folger | Spartansburg, S. C. | Feb. 13, 1828 |
| Do washing and separating | Richard Lee | Erwinsville, N. C. | July 8, 1829 |
| Do do | Wm. H. Folger | Charlotte, N. C. | Sept. 10, 1829 |
| Do do and separating | Do | Do | Nov. 18, 1829 |
| Gout nostrum | Elisha Smith | New York | Dec. 15, 1828 |
| Hides, protecting against moths | Samuel Storm | Do | Feb. 17, 1827 |
| Ink, printers' | Berry Chase | New London, Ct. | June 28, 1810 |
| Isinglass | Wm. Hall | Boston, Mass. | Mar. 23, 1822 |
| Do | John Hastings | Cambridge, Mass. | Aug. 14, 1822 |
| Lampblack | Joseph Hastings | Do | Aug. 15, 1826 |
| Lead, white, method of washing | Saml. Witherill, jr. | Philadelphia, Pa. | Oct. 29, 1811 |
| Do do manufacturing | Do | Do | Oct. 29, 1811 |
| Do do screening and separating corroded from uncorroded parts in warm water | Do | Do | Nov. 1, 1811 |
| Do red, manufacturing | Do | Do | Nov. 1, 1811 |
| Do white, and flake white, manufacturing | Alex. J. Hamilton | New York | Nov. 8, 1813 |
| Do do | Elisha De Butts | Baltimore, Md. | May 5, 1814 |
| Do do manufacturing | Jas. Welsh and Thos. Evans | Philadelphia, Pa. | Aug. 15, 1814 |
| Do do do | George F. Hagner | Do | Oct. 13, 1817 |
| Do do do | Edward Clark | Do | Mar. 28, 1818 |

LIST OF PATENTS—CHEMICAL COMPOSITIONS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Lead, white, manufacturing | Joseph Richards | Philadelphia, Pa. | May 28, 1818 |
| Do do preparing | John Burney | New Haven Town'p, O. | Jan. 2, 1829 |
| Ley, cleansing, melting pot ash | Jonathan Jones | Fabius, N. Y. | Feb. 11, 1809 |
| Lime, hydraulic | Robert Leckie | Washington, D. C. | Mar. 31, 1829 |
| Lotion, magic | John Hopkins | Philadelphia, Pa. | Aug. 24, 1809 |
| Magnesia, preparing | Wm. Dunn | Boston, Mass. | April 1, 1812 |
| Do do | Do | Do | April 8, 1813 |
| Do medicated liquid | John Cullen | Philadelphia, Pa. | May 4, 1818 |
| Mead, carbonated sarsaparilla | John Schieffelin | New York | July 19, 1824 |
| Medicine for curing the bite of a mad dog | Elizabeth Stoy, executrix of Wm. Stoy | Lebanon, Pa. | June 9, 1809 |
| Do cases | Allen Harrington | Otsego, N. Y. | July 16, 1811 |
| Do | Saml. Thompson | Surry, N. H. | Mar. 2, 1813 |
| Do called canker drops | David Holbrook | Onondaga co., N. Y. | Mar. 28, 1814 |
| Do | Lorenzo Dow | Hebron, Ct. | Nov. 24, 1820 |
| Do anti-dysenteric | John G. Vought | Rochester, N. Y. | Dec. 4, 1821 |
| Do | John Prentiss | New London, Ct. | Mar. 27, 1822 |
| Do | Saml. Thompson | Boston, Mass. | Jan. 28, 1823 |
| Do for scrofula, &c. | Gideon Jaques | Wilmington, Del. | July 16, 1824 |
| Do administering by steam | Charles Whitlaw | New York | Feb. 16, 1825 |
| Do | Fitzgerald Bird | Hancock, Geo. | April 16, 1828 |
| Do | John Dent | Augusta, Geo. | July 2, 1828 |
| Mineral water, artificial | Joseph Hawkins | Baltimore, Md. | Sept. 7, 1809 |
| Do fountain, family | Garrett E. Pendergast | Philadelphia, Pa. | Aug. 18, 1815 |
| Do waters, manufacturing | Benj. Marshall | Albany, N. Y. | Dec. 5, 1815 |

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| Do do apparatus | James S. Ewing | Philadelphia, Pa. | Feb. 10, 1817 |
| Do do do | Saml. Fahnestock | Lancaster, Pa. | April 23, 1819 |
| Do do giving temperature to | Joseph Hawkins | Philadelphia, Pa. | April 5, 1823 |
| Oil, whale, clarifying | Benj. Folger | Hudson, N. Y. | Jan. 2, 1792 |
| Do sperm, do | Richd. Robotham | New York | Aug. 14, 1799 |
| Do infusing into leather | Henry Guest | New Jersey | July 16, 1801 |
| Do sod, for leather | George Poyzer | Philadelphia, Pa. | May 10, 1805 |
| Do lamp, purifying | Eli Fourestier | Do | Nov. 17, 1808 |
| Do linseed, preparing for varnish | Nichs. S. Parmentier | Do | Jan. 30, 1809 |
| Do bene | Wm. Few | New York | Mar. 1, 1809 |
| Do Columbian | Thomas Paul | Baltimore, Md. | Feb. 23, 1811 |
| Do purifying | Lewis Mecesne | New York | June 23, 1812 |
| Do castor, clarifying | John Hallock | Burlington, N. J. | Nov. 5, 1818 |
| Do cotton seed for linseed | Geo. P. Digges | Albemarle, Va. | Dec. 16, 1820 |
| Do castor | Timothy Pharo | Tuckerton, N. J. | Feb. 5, 1822 |
| Do pyroligneous and acid, used in tanning | Horace H. Hayden | Baltimore, Md. | Nov. 26, 1823 |
| Do from poppy seed | Daniel Markum | Lenox, N. Y. | Dec. 2, 1824 |
| Do pressing from flax seed | Charles Howe, Fred. Brewster, and John Johnson | Mooretown, Vt. Colchester, Vt. Chittenden, Vt. | May 24, 1828 |
| Do refining all kinds | Charles E. Ruggles | New York | July 20, 1829 |
| Do substitute for, in mixing paints | L. J. Van Kleek | Poughkeepsie, N. Y. | Nov. 23, 1829 |
| Ointment | Wm. Judkins | Smithfield, O. | June 26, 1816 |
| Ores, improvement in working | Vincent King & Jer. King | Belair, Md. | May 30, 1811 |
| Do making into paints | Rob. Nicholson | Bairdstown, Ky. | June 23, 1812 |
| Do do | Borden Wilbur | Whitestown, N. Y. | Feb. 10, 1814 |
| Ornamenting walls and ceilings | Wm. West | Philadelphia, Pa. | May 20, 1826 |
| Oxymuriate of lime, preparing | Jonas Kendall | Lincoln, Mass. | Jan. 28, 1820 |
| Paint and colors, preparing | Hy. Alexander | Baltimore, Md. | Jan. 14, 1813 |
| Do brown | Thos. Miller, jr. | Madison co., N. Y. | Jan. 25, 1815 |

LIST OF PATENTS—CHEMICAL COMPOSITIONS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Paint for plastered walls | Alex'r. Thompson | Bethany, N. Y. | Feb. 2, 1828 |
| Do yellow | B. A. Carrendeffez | New York | Sept. 2, 1806 |
| Paste, Italian, maccaroni, &c. | John B. Saltori | Philadelphia, Pa. | July 13, 1807 |
| Do for razor straps | Elisha M. Pomeroy | New Haven, Ct. | Jan. 24, 1821 |
| Pearl ash, making without ovens | Reuben Ainsworth | - | May 14, 1808 |
| Pigment, black, for printing or painting in oil or water | Jacob Cist | Wilkesbarre, Pa. | Oct. 28, 1808 |
| Pills, bilious | Samuel Lee, jr. | Connecticut | April 30, 1796 |
| Do anti-bilious | Benj. Duvall | Virginia | May 3, 1797 |
| Do composition for | Samuel Cooley | Connecticut | June 6, 1798 |
| Do bilious | Saml. H. P. Lee | Do | June 26, 1799 |
| Do | John Hawks | Do | Dec. 14, 1799 |
| Do anti-bilious | Thos. H. Rawson | Do | July 24, 1802 |
| Do do | Do | Do | April 4, 1803 |
| Do family | Daniel Coit | - | Oct. 5, 1803 |
| Do rheumatic | George B. Dexter | Boston, Mass. | Dec. 18, 1805 |
| Do machine for making | Webster Lewis | - | July 10, 1807 |
| Do Lee's Windham bilious | Samuel Lee | New London, Ct. | May 24, 1810 |
| Do rheumatic | Ezra Deane | Biddeford, Mass. | Jan. 13, 1814 |
| Do Lee's bilious | Samuel H. P. Lee | New London, Ct. | Feb. 8, 1814 |
| Do family | David Coit | New York | June 17, 1820 |
| Do anti-dyspeptic | George Smith | Do | Aug. 7, 1821 |
| Do do | J. C. M. Brockway | Lyne, Ct. | Mar. 13, 1822 |
| Do rheumatic | Ezra Deane | Biddeford, Me. | Feb. 2, 1828 |
| Pot ash and pearl ash, manufacturing | Samuel Hopkins | Vermont | July 31, 1790 |
| Do | Edw'd Ryan | Do | Nov. 16, 1796 |

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|---|---|---|---|
| Do | William Frobisher | Massachusetts | Nov. 17, 1796 |
| Do | Thomas Power | New York | Sept. 19, 1801 |
| Do and pearl ash | Edw'd Crafs, jr. | Geneva, N. Y. | May 12, 1804 |
| Do | Jos. Bellows, jr., and Eben White | | Dec. 29, 1804 |
| Do sulphate of, separating and collecting | Alex. McNitt | Geneva, N. Y. | June 15, 1805 |
| Do and pearl ash | Jac. Latting | New York | April 26, 1816 |
| Pulverizing drugs | Isaac Eddy | Boston, Mass. | Dec. 31, 1823 |
| Rheumatic liniment | Abel Brown | Hudson, N. Y. | Oct. 17, 1804 |
| Ripening and keeping malt liquor and cider | Robt. Hare | Philadelphia, Pa. | Aug. 22, 1811 |
| Rocket, liquid combustible, &c. | Jas. Lloyd | Adams co., Pa. | May 11, 1813 |
| Salts, neutral, from alkali | Benjamin Gorton | New York | Nov. 29, 1802 |
| Do manufacturing by evaporation | Borden Wilbor | Washington co., N.Y. | Feb. 4, 1811 |
| Do from pot or pearl ash | Abner Vansant | Jefferson co., Miss. | Sept. 29, 1823 |
| Do metallic | Ed. Clark | New York | Dec. 4, 1828 |
| Saturating water with carbonic acid gas or fixed air, and method of connecting fixed tubes for the conveyance of fluids subjected to violent pressure | Chas. D. Simmons & Jean J. Riondell | Charleston, S. C. | Aug. 16, 1810 |
| Schagliola, shining | Salvadore Pinistri | New York | June 18, 1827 |
| Seal skins, manufacturing | James Eaton | Massachusetts | Feb. 16, 1796 |
| Soap, making | John Nazro | Do | Jan. 6, 1797 |
| Spirits, extracting from starch water | John Naylor | Pennsylvania | Mar. 7, 1803 |
| Do and wines, ameliorating | William Thornton | Washington, D. C. | Sept. 7, 1809 |
| Starch, potato | John Biddis | Pennsylvania | Mar. 22, 1802 |
| Do elastic clear, from wheat, and making spirits of the residue, and taking mildews from linen | Elisha Perkins | Shrewsbury, N. J. | Sept. 16, 1810 |
| Do from wheat or other vegetable matter | Do | Do | Feb. 26, 1811 |
| Stone, making artificial | Robert McKay, Dan. McKenzie, and Jas. Woodhull | Caledonia, N. Y | Jan. 16, 1828 |

LIST OF PATENTS—CHEMICAL COMPOSITIONS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Sulphur, sublimating | George B. Dexter | Boston, Mass. | Oct. 9, 1806 |
| Do do | George Robinson | Elizabethtown, N. J. | Nov. 16, 1812 |
| Sugar candy, making | Lawrence Astolfi | Philadelphia, Pa. | Nov. 28, 1812 |
| Sumach, manufacturing | Roswell Saltonstall | New London, Ct. | Feb. 28, 1793 |
| Do do | Do | Do | May 1, 1793 |
| Do do | Jos. Hillard | Connecticut | May 12, 1796 |
| Do extracting essence of | Nath'l Ladd | New Hampshire | Feb. 12, 1800 |
| Do manufacturing | Comfort Hoyt, jr. | Connecticut | April 7, 1800 |
| Syphilis, cure of | Jos. Mosher | Philadelphia, Pa. | Jan. 26, 1816 |
| Tan, mode of extracting from bark | John Biddis and Thos. Bedwell | Do | Aug. 10, 1791 |
| Tannin, extracting | William Knapp | Milford, N. Y. | April 5, 1823 |
| Do do | D. Roe, C. F. Kellogg, and J. W. Gazley | Cincinnati, Ohio | Oct. 3, 1823 |
| Do do by a water press | Wm. Lowber | Philadelphia, Pa. | Mar. 15, 1825 |
| Do improvement on Demond's mode of obtaining | Jos. Giles | Guilford, Vt. | April 11, 1825 |
| Do extracting by steam | Wm. Coburn | Gardiner, Me. | Nov. 1, 1828 |
| Tanning leather | Jas. Davis | Massachusetts | April 14, 1796 |
| Do and mode of lifting hydes | Jas. Coxe | New Jersey | Feb. 20, 1800 |
| Do | Sam'l Parker | Billerica, Mass. | July 9, 1808 |
| Do hides | Edw'd Siter | Spread Eagle, Pa. | Aug. 14, 1810 |
| Do leather | Jos. Barker | Deerfield, N. Y. | April 10, 1811 |
| Do | Wm. Hollingsworth | Elkton, Md. | July 30, 1811 |
| Do | Alex'r H. Avery | Bennington, Vt. | Sept. 30, 1811 |

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|---|---|---|---|
| Do | Jos. Barker | Deerfield, N. Y. | Jan. 10, 1812 |
| Do | Sam'l Currie | Philadelphia, Pa. | Mar. 28, 1812 |
| Do | Chris'r Luther and J. Smith, assigned to Daniel Renner | Georgetown, D. C. | May 5, 1812 |
| Do | Wm. Edwards | Northampton, Mass. | Oct. 19, 1812 |
| Do sole leather | Do | Do | Dec. 30, 1812 |
| Do | Do | Do | April 3, 1816 |
| Do | Bradford A. Potter | Manlius, N. Y. | Sept. 26, 1816 |
| Do and currying | Jon'n Prescott | Augusta, Me. | Mar. 6, 1818 |
| Do hides, &c. | Jas. Batchelder | Grafton, N. H. | Dec. 22, 1818 |
| Do bark of chesnut tree | Wm. Sheldon | Springfield, Mass. | Feb. 26, 1819 |
| Do in hemlock | Jno. Lansing, jr. | Albany, N. Y. | April 30, 1819 |
| Do | Leonard Jacobs | Missouri | Feb. 10, 1822 |
| Do | Joshua Galbraith | Trenton, N. J. | Oct. 15, 1823 |
| Do | J. Wampler and G. Matthews | Steubenville, O. | Aug. 27, 1824 |
| Do | Henry Bretney | Lebanon, O. | Mar. 24, 1825 |
| Do | Sam'l and Amos Williams | Orange, N. J. | Nov. 12, 1825 |
| Do | Leonard Jacobs | Richmond, Va. | Mar. 1, 1826 |
| Do | Ormond Cogswell | Cincinnati, O. | Sept. 18, 1827 |
| Do and manufacturing hides | E. Shove and Thos. Hunt | Locke, N. Y. | May 13, 1828 |
| Do and tan yards | Leon'd B. Johnson | Tompkinsville, Ky. | Mar. 3, 1829 |
| Tan vats, heating water in them to expedite tanning | Allen Henderson | Gr. Barrington, Mass. | Nov. 24, 1810 |
| Do | Nath'l Burley | Strafford, N. H. | Jan. 24, 1811 |
| Do constructing | Aaron Higgins | Florence, O. | April 24, 1826 |
| Tansy essence | Israel Newton | Norwich, Vt. | Feb. 28, 1806 |
| Tincture for curing corns | Elisha Smith | New Brunswick, N. J. | Jan. 20, 1826 |

## LIST OF PATENTEES—CHEMICAL COMPOSITIONS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Toothach, relieving by steam | Lemuel Merritt and Sam'l C. Rogers | New York | Dec. 27, 1815 |
| Do remedy | Jos. Utley | - | Nov. 5, 1817 |
| Do specific | Sam'l Pennington | Mount Pleasant, O. | July 30, 1829 |
| Turpentine, extracting by steam | Hez. Kelly | Brooklyn, N. Y. | May 17, 1816 |
| Varnish for leather | Jno. David | Philadelphia, Pa. | May 5, 1810 |
| Do elastic gum | Jac. F. Hummel | Do | April 29, 1813 |
| Do for furniture | Marcus Curtis | Troy, N. Y. | April 22, 1826 |
| Vegetable wash for the lungs | Geo. Rogers | Northampton, Mass. | Dec. 31, 1808 |
| Verdigris, manufacturing | Geo. F. Hagner | Philadelphia, Pa. | Oct. 13, 1817 |
| Vermifuge, preparing | Jos. Lehman | Do | Aug. 11, 1807 |
| Vitriol, making oil of | Rd. Marden | New York | Aug. 21, 1812 |
| Vitriolic test for bank bills | Abel Brewster | Hartford, Ct. | July 11, 1808 |
| Wine, making from cider | Henry Seabolt | Scipio, N. Y. | Nov. 11, 1812 |
| Do do | Ezra B. Corkings | Bristol, N. Y. | Oct. 8, 1813 |

LIST OF PATENTEES—CHEMICAL COMPOSITIONS.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Allison, Nathaniel S. & Benjamin Kugler | Philadelphia, Pa. | Acid, vegetable, preparation of | June 5, 1812 |
| Aulder, Ez. | New York | Asiatic lenitive for pain | Oct. 26, 1818 |
| Allurne, Lawrence | Pennsylvania | Color for painting | Feb. 24, 1797 |
| Armour, Jos. U. | Fredericktown, Md. | Composition to prevent scurvy | Sept. 28, 1827 |
| Alexander, Henry | Baltimore, Md. | Paint and colors, preparing | Jan. 14, 1813 |
| Ainsworth, Reuben | - - - | Pearl ash without ovens, making | May 14, 1808 |
| Astolfi, Laurence | Philadelphia, Pa. | Sugar candy, making | Nov. 28, 1812 |
| Avery, Alex. H. | Bennington, Vt. | Tanning | Sept. 30, 1811 |
| Bell, Benjamin | Boston, Mass. | Acid, sulphuric | Nov. 7, 1811 |
| Bedwell, Thomas, and William Mitchell | Pennsylvania | Bark, extracting from dying | June 7, 1803 |
| Benger, Thomas | Do | Do preparation | Jan. 25, 1804 |
| Bedwell, Thomas | Do | Color, yellow | April 20, 1796 |
| Boulia, Augustus | Philadelphia, Pa. | Do for calicoes, permanent | Dec. 24, 1814 |
| Bascom, Harvey | Weston, Mass. | Composition for mending china | June 10, 1811 |
| Board, Jos. | New York | Do for rendering leather impervious to water | Nov. 4, 1813 |
| Bay, John C. | Mount Pleasant, O. | Do pharmaceutic | Jan. 26, 1825 |
| Burney, John | New Haven town'p, O. | White lead, preparing | Jan. 2, 1829 |
| Bird, Fitzgerald | Hancock, Ga. | Medicine | April 16, 1828 |
| Brewster, Frederick & John Johnston | Colchester, Vt. / Chittenden, Vt. | Oil, pressing from flax seed | May 24, 1828 |
| Brockway, J. C. M. | Lyne, Ct. | Pills, anti-dysenteric | Mar. 13, 1822 |
| Bellows, Jos., jr., and Eben White | - - - | Pot ash | Dec. 29, 1804 |

## LIST OF PATENTS—CHEMICAL COMPOSITIONS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Brown, Abel | Hudson, N. Y. | Rheumatic liniment | Oct. 17, 1804 |
| Biddis, John | Pennsylvania | Starch, potato | Mar. 22, 1802 |
| Biddis, John, & Thos. Bedwell | Philadelphia, Pa. | Tan from bark, mode of extracting | Aug. 10, 1791 |
| Barker, Jos. | Deerfield, N. Y. | Tanning leather | April 10, 1811 |
| Do | Do | Do | Jan. 10, 1812 |
| Bachelder, James | Grafton, N. H. | Do hides, &c. | Dec. 22, 1818 |
| Bretney, Henry | Lebanon, O. | Do | Mar. 24, 1825 |
| Burley, Nathaniel | Strafford, N. H. | Tan vats | Jan. 24, 1811 |
| Brewster, Abel | Hartford, Ct. | Vitriolic test for bank bills | July 11, 1808 |
| Clinton, Charles | New York | Cement for roofs or walls of buildings | July 13, 1827 |
| Coburn, James | Middlesex | Do fire and water proof | Sept. 3, 1828 |
| Constant, Cyrus | New York | Composition for the preservation of wood and brick | Feb. 1, 1800 |
| Chew, Henry B., and E. V. Freeman | Baltimore, Md. | Do used in the fusion of metals or ores | April 7, 1829 |
| Chamberlain, Samuel | Massachusetts | Cordial, bilious | Dec. 31, 1804 |
| Cooley, Samuel | Bolton, Ct. | Elixir, vegetable | Nov. 12, 1803 |
| Chase, Berry | New London, Ct. | Ink, printers' | June 28, 1810 |
| Clark, Edward | Philadelphia | Lead, manufacturing white | Mar. 28, 1818 |
| Cullen, John | Do | Magnesia, medicated liquid | May 4, 1818 |
| Carrendeffez, B. A. | New York | Paint, yellow | Sept. 2, 1806 |
| Cist, Jacob | Wilkesbarre, Pa. | Pigmont for printing or painting in oil or water, black | Oct. 28, 1808 |
| Cooley, Samuel | Connecticut | Pills, composition for | June 6, 1798 |
| Coit, Daniel | | Pills, family | Oct. 5, 1803 |
| Coit, David | New York | Do do | June 17, 1820 |

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|---|---|---|---|
| Crafts, Edward, jr. | Geneva, N. Y. | Pot and pearl ash | May 12, 1804 |
| Clark, Ed. | New York | Salts, metallic | Dec. 4, 1828 |
| Coburn, William | Gardiner, Me. | Tannin, by steam, extracting | Nov. 1, 1828 |
| Coxe, James | New Jersey | Tanning and mode of lifting hides | Feb. 20, 1800 |
| Currie, Samuel | Philadelphia, Pa. | Do | Mar. 28, 1812 |
| Cogswell, Ormond | Cincinnati, O. | Do | Sept. 18, 1827 |
| Curtis, Marcus | Troy, N. Y. | Varnish for furniture | April 22, 1826 |
| Cookings, Ezra B. | Bristol, N. Y. | Wine from cider, making | Oct. 8, 1813 |
| Downing, Samuel | New York | Bark, extracting | June 12, 1801 |
| Do | New Jersey | Do do essence of | April 19, 1802 |
| De Riemer, Samuel | Poughkeepsie, N. Y. | Color, substitute for indigo | May 15, 1809 |
| DeCarrendeffez, Baron A. | New York | Green coloring, preparation of | Oct. 12, 1807 |
| De Niroth, Louis | Baltimore, Md. | Composition for roofs and floors of houses | Feb. 3, 1807 |
| Dempsey, Stephen | New York | Copper, acetate of | Feb. 4, 1813 |
| De Butts, Elisha | Baltimore, Md. | Lead, manufacturing white and flake white | May 5, 1814 |
| Dunn, William | Boston, Mass. | Magnesia, preparing | April 1, 1812 |
| Do | Do | Do do | April 8, 1813 |
| Dow, Lorenzo | Hebron, Ct. | Medicine | Nov. 24, 1820 |
| Dent, John | Augusta, Ga. | Do | July 2, 1828 |
| Digges, George P. | Albemarle, Va. | Oil, cotton seed for linseed | Dec. 16, 1820 |
| Duvall, Benjamin | Virginia | Pills, anti-bilious | May 3, 1797 |
| Dexter, George B. | Boston, Mass. | Do rheumatic | Dec. 18, 1805 |
| Deane, Ezra | Biddeford, Mass. | Do do | Jan. 13, 1814 |
| Do | Do | Do do | Feb. 2, 1828 |
| Dexter, George B. | Boston, Mass. | Sulphur, sublimating | Oct. 9, 1806 |
| Davis, James | Massachusetts | Leather, tanning | April 14, 1796 |
| David, John | Philadelphia, Pa. | Varnish for leather | May 5, 1810 |
| Easterly, George | Richmond, Va. | Barilla from tobacco stems, &c., manufacturing | Feb. 5, 1810 |
| Elliott, James | Philadelphia, Pa. | Bark, quercitron, preparation of | Aug. 20, 1822 |
| Eckstein, Frederick, & James McIlhenny | Do | Composition to be used instead of jostic | Oct. 12, 1814 |

LIST OF PATENTEES—CHEMICAL COMPOSITIONS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Ellis, Jos. | Dedham, Mass. | Composition for pencils | April 26, 1819 |
| Ewing, James L. | Philadelphia, Pa. | Mineral waters, apparatus for | Feb. 10, 1817 |
| Eddy, Isaac | Boston, Mass | Drugs, pulverizing | Dec. 31, 1823 |
| Eaton, James | Massachusetts | Seal skins, manufacturing | Feb. 16, 1796 |
| Edwards, William | Northampton, Mass. | Tanning | Oct. 19, 1812 |
| Do | Do | Do sole leather | Dec. 30, 1812 |
| Do | Do | Do | April 3, 1816 |
| Fessenden, Wm. G. | Walpole, N. H. | Bark, extract of | Oct. 20, 1812 |
| Fowler, John | Pennsylvania | Earth, concentration of the volatile parts of calcareous | Nov. 16, 1796 |
| Frink, Harvey | Northampton, Mass. | Elixir, restorative | Jan. 6, 1812 |
| Folger, Wm. H. | Spartansburg, S. C. | Gold and silver, separating from the earth | Feb. 13, 1828 |
| Do | Charlotte, N. C. | Do washing | Sept. 10, 1829 |
| Do | Do | Do do and separating | Nov. 18, 1829 |
| Fahnestock, Samuel | Lancaster, Pa. | Mineral waters, apparatus | April 23, 1819 |
| Folger, Benjamin | Hudson, N. Y. | Oil, clarifying whale | Jan. 2, 1792 |
| Fourestier, Eli | Philadelphia, Pa. | Do lamp, clarifying | Nov. 17, 1808 |
| Few, Wm. | New York | Do bene | Mar. 1, 1809 |
| Frobisher, Wm. | Massachusetts | Pot ash and pearl ash, manufacturing | Nov. 17, 1796 |
| Giraud, John J. | Baltimore, Md. | Anti-bilious grand depurative gurider | Sept. 9, 1817 |
| Green, Job | Charlestown, Mass. | Camphor, refining | April 27, 1812 |
| Grant, John | Saratoga, N. Y. | Cement to be used under water | Nov. 11, 1817 |
| Godfrey, Ezra | New York | Do threefold | Sept. 9, 1825 |
| Guilford, Simeon | Lebanon, Pa. | Do water | Jan. 11, 1826 |
| Do | Washington, D. C. | Do do | Jan. 16, 1827 |
| Guy, Frs. | | Color for painting, making | Dec. 30, 1803 |

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|---|---|---|---|
| Greer, David | Pittsburg, Pa. | Composition for roofs, water and fire proof | April 25, 1828 |
| Garnett, Wm. | New York | Gas, combustible | Dec. 27, 1822 |
| Guest, Henry | New Jersey | Infusing oil into leather | July 16, 1801 |
| Gordon, Benjamin | New York | Salts from alkali, neutral | Nov. 29, 1802 |
| Giles, Jos. | Guilford, Vt. | Tannin, improvement on Demond's mode of obtaining | April 11, 1825 |
| Galbraith, Joshua | Trenton, N. J. | Tanning | Oct. 15, 1823 |
| Harper, Nathan | Frankfort, Pa. | Bark, preparing quercitron | Oct. 30, 1810 |
| Harris, Benj. J. | Richmond, Va. | Ceiling, fire proof | May 17, 1814 |
| Heinen, Henry | Mifflin Township, Pa. | Cement, fire proof | May 10, 1824 |
| Howe, Jno. T. | New York | Cement, paint or varnish, water proof | Jan. 31, 1829 |
| Hall, Wm. | Boston, Mass. | Isinglass | Mar. 23, 1822 |
| Hastings, Jno. | Cambridge, Mass. | Do | Aug. 14, 1822 |
| Hastings, Jos. | Do | Lampblack | Aug. 15, 1826 |
| Hamilton, Alex'r J. | New York | Lead, manufacturing white and flake white | Nov. 8, 1813 |
| Hagner, Geo. F. | Philadelphia, Pa. | Do do do | Oct. 13, 1817 |
| Hopkins, Jno. | Do | Lotion, magic | Aug. 24, 1809 |
| Harrington, Allen | Otsego, N. Y. | Medicine cases | July 16, 1811 |
| Holbrook, David | Onondaga co., N. Y. | Do called canker drops | Mar. 28, 1814 |
| Hawkins, Jos. | Baltimore, Md. | Mineral water, artificial | Sept. 7, 1809 |
| Do | Philadelphia | Do do giving temperature to | April 5, 1823 |
| Hallock, Jno. | Burlington, N. J. | Oil, clarifying castor | Nov. 5, 1818 |
| Hayden, Horace H. | Baltimore, Md. | Do pyroligneous and acid used in tanning | Nov. 26, 1823 |
| Howe, Chas. | Mooretown, Vt. | Do pressing from flaxseed | |
| Hawks, Jno. | Connecticut | Pills | Dec. 14, 1799 |
| Hopkins, Sam'l | Philadelphia, Pa. | Pot ash and pearl ash, manufacturing | July 31, 1790 |
| Hare, Rob't | Do | Ripening and keeping malt liquor and cider | Aug. 22, 1811 |
| Hillard, Jos. | Connecticut | Sumac, manufacturing | May 12, 1796 |
| Hoyt, Comfort, jr. | Do | Do do | April 7, 1800 |
| Hollingsworth, Wm. | Elkton, Md. | Tanning | July 30, 1811 |
| Henderson, Allen | Gr. Barrington, Mass. | Tan vats, heating water in them to expedite tanning | Nov. 24, 1810 |
| Higgins, Aaron | Florence, O. | Do constructing | April 24, 1826 |

LIST OF PATENTEES—CHEMICAL COMPOSITIONS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Hummel, Jac. F. | Philadelphia, Pa. | Varnish, elastic gum | April 29, 1813 |
| Hagner, Geo. F. | Do do | Verdigris, manufacturing | Oct. 13, 1817 |
| Johnson, Asa | Northumberland, Pa. | Febrifuge | Jan. 11, 1812 |
| Jones, Jona. | Fabius, N. Y. | Ley, cleansing, melting pot ash | Feb. 11, 1809 |
| Jaques, Gideon | Wilmington, Del. | Medicine for scrofula, &c. | July 16, 1824 |
| Judkins, Wm. | Smithfield, O. | Ointment | June 26, 1816 |
| Jacobs, Leonard | Missouri | Tanning | Feb. 10, 1823 |
| Do | Richmond, Va. | Do | Mar. 1, 1826 |
| Johnson, Leon'd B. | Tompkinsville, Ky. | Do and tan yards | Mar. 3, 1829 |
| Kurtz, And'w | Philadelphia, Pa. | Charcoal, manufacturing | June 28, 1816 |
| Kugler, Benj. | Do | Gas, carburated hydrogen | April 23, 1816 |
| King, Vincent, & Jer. King | Belair, Md. | Ores, improvement in working | May 30, 1811 |
| Kendall, Jonas | Lincoln, Mass. | Oxymuriate of lime, preparing | Jan. 28, 1820 |
| Knapp, Wm. | Milford, N. Y. | Tannin, extracting | April 5, 1823 |
| Kelly, Hez. | Brooklyn, N. Y. | Turpentine by steam, extracting | Mar. 17, 1816 |
| Long, Charity S. | Philadelphia, Pa. | Consumption and other complaints, curing | May 27, 1812 |
| Lozarus, Simon | Virginia | Cordial, anti bilious | Dec. 21, 1802 |
| Lee, Richard | Erwinsville, N. C. | Gold, washing and separating | July 8, 1829 |
| Leckie, Rob. | Washington city, D.C. | Lime, hydraulic | Mar. 31, 1829 |
| Lee, Sam'l, jr. | Connecticut | Pills, bilious | April 30, 1796 |
| Lee, Sam'l H. P. | Do | Do do | June 26, 1799 |
| Lewis, Webster | | Do machine for making | July 10, 1807 |
| Lee, Sam'l | New London, Ct. | Do Lee's Windham bilious | May 24, 1810 |
| Lee, Sam'l H. P. | Do | Do do bilious | Feb. 8, 1814 |

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|---|---|---|---|
| Latting, Jac. | New York | Pot and pearl ashes | April 26, 1816 |
| Lloyd, Jas. | Adams co., Pa. | Rocket, liquid, combustible, &c. | May 11, 1813 |
| Ludd, Nath'l | New Hampshire | Sumach, extracting essence of | Feb. 12, 1796 |
| Lowber, Wm | Philadelphia, Pa. | Tannin by a water press, extracting | Mar. 15, 1825 |
| Luther, Chris'r, and J. Smith, assigned to Daniel Renner | Georgetown, D. C. | Tanning | May 5, 1812 |
| Lansing, Jno. jr. | Albany, N. Y. | Do in hemlock | April 30, 1819 |
| Lehman, Jos. | Philadelphia, Pa. | Vermifuge, preparing | Aug. 11, 1807 |
| Mazzy, John | Massachusetts | Alkali, from marine salt and kelp, extracting | Jan. 6, 1797 |
| Macfarland, Moses | Do | Balloon | Oct. 28, 1799 |
| Mead, Henry | New Haven, Ct. | Camphor, refining | Feb. 12, 1810 |
| Morneweck, Chas. | Baltimore, Md. | Cement for roofs of houses | Mar. 13, 1809 |
| Matthey, Louis | Brooklyn, N. Y. | Composition, marble, granite, &c. | Mar. 7, 1827 |
| Mark, John H. | Philadelphia, Pa. | Glue, manufacturing | Oct. 3, 1822 |
| Marshall, Benjamin | Albany, N. Y. | Mineral waters, manufacturing | Dec. 5, 1815 |
| Mecesne, Lewis | New York | Oil, purifying | June 23, 1812 |
| Markum, Daniel | Lenox, N. Y. | Oil from poppy seed | Dec. 2, 1824 |
| Miller, Thomas, jr. | Madison co., N. Y. | Paint, brown | Jan. 25, 1815 |
| McNitt, Alexander | Geneva, N. Y. | Separating and collecting sulphate of pot ash | June 15, 1805 |
| McKay, Robert, Daniel McKenzie, and Jos. Woodhull | Caledonia, N. Y. | Stone, making artificial | Jan. 16, 1828 |
| Mosher, Jos. | Philadelphia, Pa. | Syphilis, cure of | Jan. 26, 1816 |
| Merritt, Lemuel, and Samuel C. Rogers | New York | Toothach, curing by steam | Dec. 27, 1815 |
| Marden, Richard | Do | Vitriol, making oil of | Aug. 21, 1812 |
| Nicholas, Jona. jr. | Broadalbin, N. Y. | Color with lime, preparation of | April 12, 1815 |
| Noble, John | Derby, Ct. | Composition for taking off the glaze of millstones | June 10, 1813 |
| Nash, Aaron | - - | Do for axletrees | Dec. 17, 1814 |
| Nicholson, Robert | Bairdstown, Ky | Ores into paints, making | June 23, 1812 |

## LIST OF PATENTEES—CHEMICAL COMPOSITIONS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Nazro, John | Massachusetts | Soap making | Jan. 6, 1797 |
| Naylor, John | Pennsylvania | Spirits from starch water | Mar. 7, 1803 |
| Newton, Israel | Norwich, Vt. | Tansy essence | Feb. 28, 1806 |
| Osgood, Charles | Salem, Mass. | Composition for black lead pencils | Feb. 26, 1814 |
| Pearson, John | Connecticut | Dye, blue | Mar. 3, 1800 |
| Powell, Trueman | Burlington, Vt. | Dysentery, dyspepsia, &c. | Feb. 2, 1828 |
| Phœbus, William | New York | Galvanism for salivation | June 9, 1807 |
| Prentiss, John | New London, Ct. | Medicine | Mar. 27, 1822 |
| Pendergast, Garrett E. | Philadelphia, Pa. | Fountain, family mineral | Aug. 18, 1815 |
| Poyser, George | Do | Oil, sod, for leather | May 10, 1805 |
| Parmentier, Nich. S. | Do | Oil, linseed, preparing varnish | Jan. 30, 1809 |
| Paul, Thomas | Baltimore, Md. | Oil, Columbian | Feb. 23, 1811 |
| Pharo, Timothy | Tuckerton, N. J. | Oil, castor | Feb. 5, 1822 |
| Pomeroy, Elisha M. | New Haven, Ct. | Paste for razor strops | Jan. 24, 1821 |
| Power, Thomas | New York | Pot ash, manufacturing | Sept. 19, 1801 |
| Pinistri, Salvadore | Do | Schagliola, shining | June 18, 1827 |
| Perkins, Elisha | Shrewsbury, N. J. | Starch, elastic clear, from wheat, and making spirits of the residue, and taking mildews from linen | Sept. 16, 1810 |
| Do | Do | Starch from wheat or other vegetable matter | Feb. 26, 1811 |
| Parker, Samuel | Billerica, Mass. | Tanning | July 9, 1808 |
| Potter, Bradford A. | Manlius, N. Y. | Do | Sept. 26, 1816 |
| Prescott, Jonathan | Augusta, Me. | Do and currying | Mar. 6, 1818 |
| Pennington, Samuel | Mount Pleasant, O. | Toothach specific | July 30, 1829 |
| Usher, Sophia | New York | Cream of tartar, carbonated liquid | Sept. 11, 1819 |
| Utley, Jos. | | Toothach remedy | Nov. 5, 1817 |

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|---|---|---|---|
| Randolph, David M. | Richmond, Va. | Cement, water proof | Sept. 26, 1821 |
| Robotham, Richard | Vermont | Composition for flooring houses | April 12, 1794 |
| Rogers, Abijah | Hudson, N. Y. | Do for covering houses | Mar. 14, 1817 |
| Ritter, David | New Haven, Ct. | Do for razor strops | Mar. 9, 1822 |
| Rucco, Jules | Baltimore, Md. | Elixir of life | Mar. 29, 1817 |
| Richards, Jos. | Philadelphia, Pa. | Lead, manufacturing white | May 28, 1818 |
| Robotham, Richard | New York | Oil, spermaceti, clarifying | Aug. 14, 1799 |
| Ruggles, Charles E. | Do | Oil, refining all kinds of | July 20, 1829 |
| Rawson, Thomas H. | Connecticut | Pills, anti-bilious | July 24, 1802 |
| Do | Do | Do do | April 4, 1803 |
| Ryan, Edward | Vermont | Pot ash and pearl ash, manufacturing | Nov. 16, 1796 |
| Robinson, George | Elizabethtown, N. J. | Sulphur, sublimating | Nov. 16, 1812 |
| Roe, D., C. F. Kellogg, and J. W. Gazley | Cincinnati, O. | Tannin, extracting | Oct. 3, 1823 |
| Rogers, George | Northampton, Mass. | Vegetable wash for the lungs | Dec. 31, 1808 |
| Stodder, David | Massachusetts | Cement for roofs of houses | Nov. 16, 1804 |
| Scott, Abraham | Newburg, N. C. | Do for walls, ceilings and floors | Aug. 15, 1814 |
| Scott, Abel, and Alonzo Selden | Winchester, N. H. | Composition for softening cast or crude iron | Nov. 8, 1814 |
| Smith, Daniel E. | Cornwall, Ct. | Cough drops | June 30, 1828 |
| Smith, Elisha | New York | Gout nostrum | Dec. 15, 1828 |
| Storm, Samuel | Do | Hides, protecting against moths | Feb. 17, 1827 |
| Schieffelin, John | Do | Mead, carbonated sarsaparilla | July 19, 1824 |
| Stoy, Elizabeth, ex'x of Wm. Stoy | Lebanon, Pa. | Medicine for curing the bite of a mad dog | June 9, 1809 |
| Saltori, John B. | Philadelphia, Pa. | Paste, Italian macaroni, &c. | July 13, 1807 |
| Smith, George | New York | Pills, anti-dyspeptic | Aug. 7, 1821 |
| Simmons, Charles D. and Jean I. Riondell | Charleston, S. C. | Saturating water with carbonic acid gas or fixed air, and method of connecting fixed tubes for the conveyance of fluids subjected to violent pressure | Aug. 16, 1810 |
| Saltonstall, Roswell | New London, Ct. | Sumach, manufacturing | Feb. 28, 1793 |

## LIST OF PATENTEES—CHEMICAL COMPOSITIONS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Saltonstall, Roswell | New London, Ct. | Sumach, manufacturing | May 1, 1793 |
| Siter, Edward | Spread Eagle, Pa. | Tanning hides | Aug. 14, 1810 |
| Shelden, William | Springfield, Mass. | Do bark of chesnut tree | Feb. 26, 1819 |
| Shove, E. and Thomas Hunt | Locke, N. Y. | Do and manufacturing hides | May 13, 1828 |
| Smith, Elisha | New Brunswick, N. J. | Tincture for curing corns | Jan. 20, 1826 |
| Seabolt, Henry | Scipio, N. Y. | Wine from cider, making | Nov. 11, 1812 |
| Troost, Genet | Philadelphia, Pa. | Alum from lignite, making | Mar. 3, 1817 |
| Trembly, Benjamin | New York | Cement, imitation of marble | Nov. 13, 1827 |
| Tyson, Isaac | Baltimore, Md. | Copperas, making | Feb. 15, 1827 |
| Thompson, Samuel | Surry, N. H. | Medicine | Mar. 2, 1813 |
| Do | Boston, Mass. | Do | Jan. 28, 1823 |
| Thompson, Alexander | Bethany, N. Y. | Paint for plastered walls | Feb. 2, 1828 |
| Thornton, William | Washington, D. C. | Spirits and wines, ameliorating | Sept. 7, 1809 |
| Valentine, George F. | Albany, N. Y. | Crystallizing tin | Aug. 26, 1818 |
| Vought, John G. | Rochester, N. Y. | Medicine, anti dysenteric | Dec. 4, 1821 |
| Van Kleek, L. I. | Poughkeepsie, N. Y. | Oil in mixing paints, substitute for | Nov. 23, 1829 |
| Vanzant, Abner | Jefferson co., Miss. | Salts from pot or pearl ash | Sept. 29, 1823 |
| Wheaton, Jesse | Massachusetts | Bitters, jaundice | Jan. 17, 1801 |
| White, Canvas | Whitestown, N. Y. | Cement, water proof | Feb. 1, 1820 |
| Do | Do | Do do | Feb. 17, 1821 |
| Wightman, James P. | Boston, Mass. | Composition to render woollen cloth water proof | Oct. 21, 1806 |
| Willand, Elias | Albany, N. Y. | Do for the cure of cancers | Oct. 8, 1810 |
| Wall, Richard | Philadelphia, Pa. | Do for copy, writing, and drawing books | April 28, 1817 |
| White, Thomas | St. Clairsville, O. | Do for teeth | July 29, 1829 |

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| Waldron, Daniel | New York | Glue, fish, or icthyocolla | Mar. 4, 1812 |
| Wetherhill, Sam'l, jr. | Philadelphia, Pa. | Lead, method of washing white | Oct. 29, 1811 |
| Do | Do | Lead, manufacturing white | Oct. 29, 1811 |
| Do | Do | Lead, screening and separating corroded from uncorroded parts in *warm water*, white | Nov. 1, 1811 |
| Do | Do | Lead, manufacturing red | Nov. 1, 1811 |
| Welsh, James, & Thomas Evans | Philadelphia, Pa. | Lead, manufacturing white | Aug. 15, 1814 |
| Whitlaw, Charles | New York | Medicine, administering by steam | Feb. 16, 1825 |
| Wilbor, Borden | Whitestown, N. Y. | Ores into paints, making | Feb. 10, 1814 |
| West, William | Philadelphia, Pa. | Ornamenting walls and ceilings | May 20, 1826 |
| Wilbor, Borden | Washington co., N.Y. | Salts by evaporation, manufacturing | Feb. 4, 1811 |
| Wampler, J., and G. Matthews | Steubenville, O. | Tanning | Aug. 27, 1824 |
| Williams, Sam'l & Amos | Orange, N. J. | Do | Nov. 12, 1825 |

## LIST OF PATENTS—FINE ARTS.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Amulets | Edw'd West | Kentucky | May 19, 1800 |
| Bank notes | George Murray | Philadelphia, Pa. | Mar. 23, 1822 |
| Do | James Puglia | Do | Aug. 13, 1822 |
| Bugle, Kent | Rd. Willis | West Point, N. Y. | Nov. 10, 1827 |
| Copying machine | Cephas Thompson | Bristol, R. I. | Feb. 5, 1806 |
| Counterfeit notes, detecting | J. Perkins | Massachusetts | Mar. 19, 1799 |
| Do mode of engraving and printing to prevent | George Murray | Philadelphia, Pa. | Feb. 13, 1810 |
| Do mode of preventing | Jac. Perkins | Boston, Mass. | June 16, 1810 |

LIST OF PATENTS—FINE ARTS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Counterfeits, preventing, by printing on the back | John Kneass | | April 28, 1815 |
| Do do by use of types | Abel Brewster | Hartford, Ct. | July 15, 1816 |
| Do do | Richard Wilcox | New York | Sept. 19, 1823 |
| Do do | Nathaniel Sylvester | Do | July 12, 1824 |
| Delineator for fac similes | Jonas Wickes | Do | Sept. 9, 1825 |
| Dies, circular, improvement on Perkins's | Jac. Perkins<br>G. Murray | Newburyport, Mass.<br>Philadelphia, Pa. | June 25, 1813 |
| Do or die work, substituting for etching | Abel Brewster | Frankfort, Pa. | July 15, 1813 |
| Drawing, mechanical prospective | Simeon De Witt | Albany, N. Y. | April 30, 1813 |
| Divitials, and preventing forgeries | C. S. Rafinesque | Lexington, Ky. | Aug. 23, 1825 |
| Engraving | Isaac Hutton and G. Fairman | New York | Jan. 8, 1802 |
| Etching end pieces of bank notes | Henry Tanner | Philadelphia, Pa. | July 1, 1815 |
| Flute, German | William Schaffer | New York | June 6, 1814 |
| Grammar, teaching | John Lamb | Hillsdale, N. Y. | July 29, 1820 |
| Grammatical key | James Brown | Newark, N. J. | Mar. 3, 1817 |
| Grammatical mirror | Cyrus Durand | Springfield, N. J. | Mar. 17, 1818 |
| Harmonicon | Francis H. Smith | Northampton, Va. | April 7, 1825 |
| Inkstand | Oliver Barber | Hartford, Ct. | May 13, 1813 |
| Lektography | James B. Manning | Gloucester, Mass. | Feb. 16, 1829 |
| Letters, making shaded | George Bruce | New York | April 4, 1820 |
| Lythography | David Henderson | Jersey City, N. J. | Sept. 17, 1824 |
| Marble, preparing for painting | Arch'd Robertson | New York | Mar. 5, 1804 |
| Music, printing | Aw. Law | Connecticut | May 12, 1802 |
| Do type | Uri K. Hill | New York | Feb. 7, 1812 |

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|---|---|---|---|
| Do arranging to printed books | Moses Elliot | Boscawen, N. H. | June 9, 1818 |
| Do | Nichs. A. Lete | New York | June 11, 1818 |
| Do teaching by means of a dumb instrument | George Geib | Do | Aug. 30, 1819 |
| Do notes | William C. Phillips | Lunenburg, Va. | June 18, 1829 |
| Musical instruments | John J. Hawkins | Pennsylvania | Oct. 24, 1800 |
| Do do keyed, producing a swell | Charles Pommer | Philadelphia, Pa. | Aug. 30, 1819 |
| Organs | Aaron M. Peasley | Boston, Mass. | Nov. 11, 1818 |
| Ornamenting, gilding, &c., with types | Frs. Bailey | Philadelphia, Pa. | Oct. 9, 1816 |
| Do columns | Cyrus Durand | Springfield, N. J. | Sept. 22, 1818 |
| Painting rooms | John Selby | - | Dec. 30, 1803 |
| Do fret | John Macray | New York | May 28, 1818 |
| Pen, metallic, writing | Peregrine Williamson | Baltimore, Md. | Nov. 22, 1809 |
| Do spring ruler | Thos. M. Pomeroy & Lemuel Hedge | Windsor, Vt. | June 21, 1815 |
| Do instrument for holding | Henry Smith | Georgetown, D. C. | Jan. 15, 1818 |
| Do flying | Lewis M. De Spraugh | New York | June 29, 1818 |
| Do double | Mark I. Brunell | Do | Jan. 17, 1799 |
| Do microscopic | John Bennett | Lowell, Mass. | Oct. 11, 1828 |
| Physiognotrace | J. Todd, Augs. Day, and William Bache | Pennsylvania | June 15, 1803 |
| Do | Daniel Atherton | Richmond, Va. | May 4, 1805 |
| Piano forte | James S. McLean | New Jersey | May 27, 1796 |
| Do | John J. Hawkins | Pennsylvania | Feb. 12, 1800 |
| Do | Ralph Shaw | Boston, Mass. | July 2, 1806 |
| Do | George Charters | New York | July 8, 1815 |
| Do | John Geib | Do | Oct. 3, 1817 |
| Do | Jas. A. Guttwaldt | Do | Aug. 27, 1818 |
| Do glass strings | Rich'd Bury | Albany, N. Y. | Aug. 21, 1819 |
| Do sounding board | James Stewart | Boston, Mass. | Nov. 14, 1822 |
| Do longitudinal bar | John Dwight | Do | July 29, 1824 |
| Do | Alpheus Babcock | Do | Dec. 17, 1826 |

LIST OF PATENTS—FINE ARTS—Continued.

| INVENTIONS OR DISCOVERIES. | NAMES OF PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|---|
| Piano forte, horizontal | Thos. Loud, jr. | Philadelphia, Pa. | May 15, 1827 |
| Do | C. F. L. Albrecht | Do | Mar. 18, 1828 |
| Do hammer heads, fitting | John Makay | Boston, Mass. | Aug. 14, 1828 |
| Do chromamometro for tuning | Peter Pettinos | Philadelphia, Pa. | Mar. 3, 1820 |
| Pictures, ornamental frames, Jackson ground | John Parker & Lewis P. Clover | New York | Mar. 23, 1829 |
| Plates, graphic, for bank notes | John Meer | Philadelphia, Pa. | July 1, 1815 |
| Do stereotype | Nathan Hale | Boston, Mass. | Nov. 20, 1829 |
| Pronunciation of syllables, conveying | Jac. A. Cummings | Do | Nov. 3, 1819 |
| Reading, mode of teaching | Hugh Chard | Courtlandt, N. Y. | Feb. 16, 1809 |
| Silk, oiled, manufacturing | Ralph Hodgson | New York | Feb. 1, 1793 |
| Tablets, composition | Amos D. Allen | Windham | May 10, 1804 |
| Transferring impressions from paper to wood | A. O. Baker and M. F. Biddle | Albany, N. Y. | Feb. 7, 1822 |
| Varnishing and japanning | James Finnigan | Newark, N. J. | Oct. 8, 1818 |
| Violin | John Edwards | New York | Feb. 17, 1820 |
| Writing, mode of teaching | Samuel Randall | Warren, R. I. | Oct. 1, 1810 |
| Do instrument | Ezra L. Miller | Charleston, S. C. | May 11, 1811 |
| Do mode of teaching | Samuel Randall | Warren, R. I. | Jan. 11, 1812 |
| Do do do by plummets of lead | Thomas Weston | Peacham, Vt. | June 26, 1812 |

# LIST OF PATENTEES—FINE ARTS.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Allen, Amos D. | Windham | Tablet, composition | May 10, 1804 |
| Atherton, Danl. | Richmond, Va. | Physiognotrace | May 4, 1805 |
| Albrecht, C. F. L. | Philadelphia | Piano forte | Mar. 18, 1828 |
| Brunnell, Mark J. | New York | Pen, double | Jan. 17, 1799 |
| Brewster, Abel | Frankfort, Pa. | Die work, substitute for etching | July 15, 1813 |
| Barber, Oliver | Hartford, Ct. | Stand, ink | May 13, 1813 |
| Brewster, Abel | Do | Counterfeit notes, use of types in preventing | July 15, 1816 |
| Bailey, Francis | Philadelphia, Pa. | Gildings, &c., ornamenting with types | Oct. 9, 1816 |
| Bury, Richard | Albany, N. Y. | Piano forte, glass strings | Aug. 21, 1819 |
| Bruce, George | New York | Letters, making shaded | April 4, 1820 |
| Baker, A. C., and M. T Biddle | Albany, N. Y. | Transferring impressions from paper to wood | Feb. 7, 1822 |
| Babcock, Alpheus | Boston, Mass. | Piano forte | Dec. 17, 1825 |
| Bennet, John | Lowell, Mass. | Pen, microscope machine | Oct. 11, 1828 |
| Browne, James | Newark, N. J. | Grammatical key | Mar. 3, 1817 |
| Carrendeffer, Baron A. | New York | Paint, yellow | Sept. 2, 1806 |
| Chard, Hugh | Courtlandt, N. Y. | Reading, mode of teaching | Feb. 16, 1809 |
| Charters, George | New York | Piano forte | July 8, 1813 |
| Cummings, Jac. A. | Boston, Mass. | Syllables, conveying the pronunciation of | Nov. 3, 1819 |
| De Witt, Simeon | Albany, N. Y. | Drawing, mechanical, perspective | April 30, 1813 |
| Durand, Cyrus | Springfield, N. J. | Mirror, grammatical | Mar. 17, 1818 |
| De Spraugh, Lewis M. | New York | Pen, flying, or tachygraphy | June 29, 1818 |
| Durand, Cyrus | Springfield, N. J. | Columns, ornamenting | Sept. 22, 1818 |
| Dwight, John | Boston, Mass. | Piano forte, longitudinal bar in a | July 29, 1824 |
| Elliot, Moses | Boscawen, N. H. | Music, arranging to printed books | June 9, 1818 |

LIST OF PATENTEES—FINE ARTS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Edwards, John | New York | Violin | Feb. 17, 1820 |
| Finnigan, James | Newark, N. J. | Varnishing and japanning | Oct. 8, 1818 |
| Guy, Francis | - - | Colors, making for painting | Dec. 30, 1803 |
| Geib, John | New York | Piano forte | Oct. 3, 1817 |
| Guttwaldt, Jos. A. | Do | Do | Aug. 27, 1818 |
| Geib, George | Do | Music, teaching by means of a dumb instrument | Aug. 30, 1819 |
| Hodgson, Ralph | Do | Silk, manufacturing oiled | Feb. 1, 1793 |
| Hawkins, John J. | Pennsylvania | Piano forte | Feb. 12, 1800 |
| Do | Do | Instruments, musical | Oct. 24, 1800 |
| Hutton, Isaac, and G. Fairman | New York | Engraving | Jan. 8, 1802 |
| Hill, Uri K. | Do | Music types | Feb. 7, 1812 |
| Henderson, David | Jersey City, N. J. | Lythography | Sept. 17, 1824 |
| Hale, Nathan | Boston, Mass. | Plates, stereotype | Nov. 20, 1829 |
| Kneass, John | - - | Counterfeits, preventing, by printing on the back of bank notes | April 28, 1815 |
| Law, Andrew | Connecticut | Music, printing | May 12, 1802 |
| Lete, Nichs. A. | New York | Do | June 11, 1818 |
| Lamb, John | Hillsdale, N. Y. | Grammar, teaching | July 29, 1820 |
| Loud, Thos., jr. | Philadelphia, Pa. | Piano, horizontal | May 15, 1827 |
| McLean, James | New Jersey | Piano fortes | May 27, 1796 |
| Murray, George | Philadelphia, Pa. | Counterfeiting, mode of engraving and printing to prevent | Feb. 13, 1810 |
| Miller, Ezra L. | Charleston, S. C. | Writing instrument | May 11, 1811 |
| Murray, George | Philadelphia, Pa. | Bank notes, graphic plates for | June 25, 1813 |
| Meer, John | Do | Do do | July 1, 1813 |

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|---|---|---|---|
| Macray, John | New York | Fret, painting | May 28, 1818 |
| Murray, George | Philadelphia, Pa. | Bank notes | Mar. 23, 1822 |
| Mackay, John | Boston, Mass. | Piano fortes, fitting hammer heads for | Aug. 14, 1828 |
| Manning, Jos. B. | Gloucester, Mass. | Lecktography | Feb. 16, 1829 |
| Perkins, J. | Massachusetts | Notes, detecting counterfeit | Mar. 19, 1799 |
| Do | Boston, Mass. | Counterfeiting, mode of preventing | June 16, 1810 |
| Perkins, Jac. / Geo. Morey | Newburyport, Ms. / Philadelphia, Pa. | Dies, circular, improvement on J. Perkins's | June 25, 1813 |
| Pomroy, Thos. M., & Leml. Hedge | Windsor, Vt. | Spring pen ruler | June 21, 1815 |
| Peasly, Aaron M. | Boston, Mass. | Organs | Nov. 11, 1818 |
| Pominer, Chas. | Philadelphia, Pa. | Instruments, producing a swell in keyed | Aug. 30, 1819 |
| Puglia, James | Do | Bank notes | Aug. 13, 1822 |
| Pettinos, Peter | Do | Chromamometro for piano tuning | Mar. 3, 1829 |
| Parker, John, and L. P. Clover | New York | Picture frames, ornamental Jackson ground | Mar. 23, 1829 |
| Phillips, Wm. C. | Lunenberg, Va. | Music notes | June 18, 1829 |
| Robotham, Richard | Vermont | Houses, composition for flooring | April 12, 1794 |
| Robertson, Arch'd | New York | Marble, preparing for painting | Mar. 5, 1804 |
| Randall, Sam. | Warren, R. I. | Writing, mode of teaching | Oct. 1, 1812 |
| Do | Do | Do do do | Jan. 11, 1812 |
| Rafinesque, C. S. | Lexington, Ky. | Divitials and preventing forgeries | Aug. 23, 1825 |
| Selby, John | - | Rooms, painting | Dec. 30, 1803 |
| Shaw, Ralph | Boston, Mass. | Piano forte | July 2, 1806 |
| Schaffer, William | New York | Flute, German | June 6, 1813 |
| Smith, Henry | Georgetown, D. C. | Pen, instrument for holding the | Jan. 15, 1818 |
| Stewart, James | Boston, Mass. | Piano fortes, sounding boards for | Nov. 14, 1822 |
| Sylvester, Nath'l | New York | Counterfeits, preventing | July 12, 1824 |
| Smith, Frs. H. | Northampton, Va. | Harmonicon | April 7, 1825 |
| Thompson, Cephas | Bristol, R. I. | Copying machine | Feb. 5, 1806 |
| Tanner, Henry S. | Philadelphia, Pa. | Bank notes, etching end pieces of | July 1, 1815 |

LIST OF PATENTEES—FINE ARTS—Continued.

| NAMES OF PATENTEES. | RESIDENCE. | INVENTIONS OR DISCOVERIES. | WHEN ISSUED. |
|---|---|---|---|
| Todd, J., Aug. Day, and William Bache | Philadelphia, Pa. - | Physiognotrace - - - - - | June 15, 1803 |
| Vannini, Jos. - - | Washington City, D.C. | Lotteries - - - - - - | Dec. 4, 1815 |
| Do - - | Philadelphia, Pa. - | Lottery scheme - - - - - | Oct. 18, 1823 |
| West, Edw'd - | Kentucky - - | Amulets - - - - - - | May 19, 1800 |
| Williamson, Peregrine | Baltimore, Md. - | Pen, metallic writing - - - - - | Nov. 22, 1809 |
| Weston, Thomas - | Peacham, Vt. - | Writing, teaching Wrifford's art by plummets of lead | June 26, 1812 |
| Wilcox, R. - - | New York - - | Forgeries, preventing - - - - - | Sept. 19, 1823 |
| Wilkes, Jonas - | Do - - | Delineator for fac similes - - - - | Sept. 9, 1825 |
| Willis, R'd - - | West Point, N. Y. - | Bugle, Kent - - - - - - | Nov. 10, 1827 |

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